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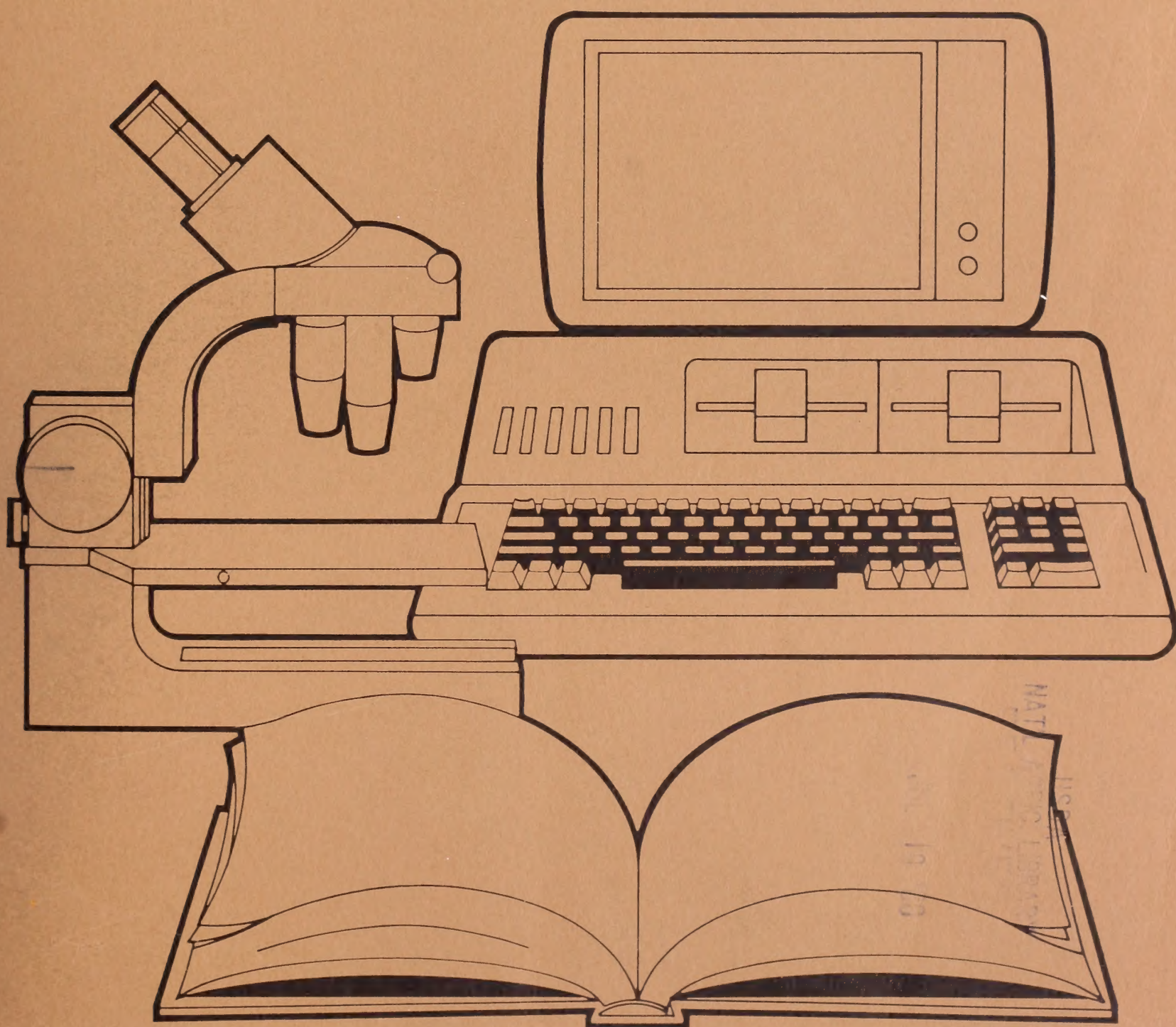
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Bibliographies
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of Agriculture
Number 63

The Protection of Ground and Surface Waters, January 1982-August 1987

Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations



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ROBERT E. HOWARD, Director
National Agricultural Library



THOMAS M. CALKINS, Director
Office of Pesticide Programs

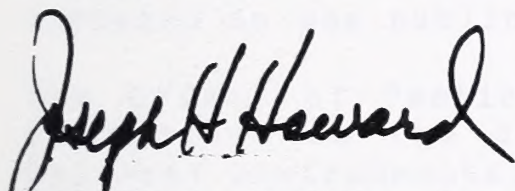
FOREWORD

This is the 17th volume in a series of commodity-oriented environmental bibliographies resulting from a memorandum of understanding between the U.S. Department of Agriculture, National Agricultural Library (USDA-NAL), and the U.S. Environmental Protection Agency, Office of Pesticide Programs (EPA-OPP).

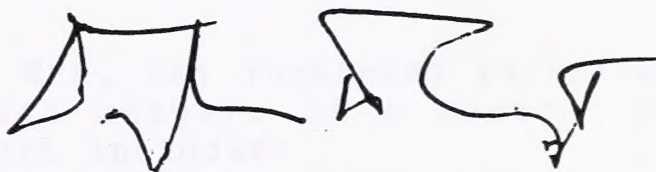
This close working relationship between the two agencies will produce a series of bibliographies which will be useful to EPA in the regulation of pesticides, as well as to any researcher in the field of plant or commodity protection. The broad scope of information contained in this series will benefit USDA, EPA, and the agricultural community as a whole.

The sources referenced in these bibliographies include the majority of the latest available information from U.S. publications involving commodity protection throughout the growing and processing stages for each agricultural commodity.

We welcome the opportunity to join this cooperative effort between USDA and EPA in support of the national agricultural community.



JOSEPH H. HOWARD, Director
National Agricultural Library



DOUGLAS D. CAMPT, Director
Office of Pesticide Programs

INTRODUCTION

The citations in this bibliography are selected from English language material from the international literature on the agricultural aspects of the pollution of ground and surface waters by chemicals. Acid rain citations are included only when the citation indicates contamination or pollution effects on these waters. Citations selected were limited to AGRICOLA from January 1982 to August 1987. AGRICOLA (AGRICultural OnLine Access) is the master database compiled by the National Agricultural Library and its cooperators.

This is the 17th bibliography in a series of commodity-oriented listings of citations from AGRICOLA jointly sponsored by the National Agricultural Library, U.S. Department of Agriculture (USDA-NAL), and the Office of Pesticides Programs, U.S. Environmental Protection Agency (EPA-OPP). Additional volumes issued recently or planned for the immediate future concern plant growth regulators; the protection of sugar beets and sugarcane; the protection of turf grasses; the protection of potatoes, sweet potatoes, and yams; the protection of hays; and the protection of citrus.

Entries in the bibliography are subdivided into a series of section headings used in the contents of the Bibliography of Agriculture. Each item appears under every section heading assigned to the cited document. A personal author index is also included in the publication.

The Office of Pesticide Programs, EPA, has furnished technical assistance to the compiler through members of a commodity-oriented environmental data team which included:

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Seay, Edmond Eggleston, 1931-. 1970. Thesis (Ph.D.)--Iowa State University, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. iii, 156 leaves ; 21 cm. Bibliography: leaf 123-131. (NAL Call No.: DISS 71-14,260).

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Perceptions, attitudes and risk: overlooked variables in formulating public policy on soil conservation and water quality - an organized symposium.

Christensen, L.A. (ed.). Washington, D.C., The Service. Extract: The formulation of public goals for soil conservation and water quality improvement requires consideration of farmers' perception of the problems and their attitudes towards risk inherent in proposed options. Traditional budget analyses assume profit maximization objectives and ignore risk attitudes. Risk attitudes are related to wealth position and thus influence receptivity to new technologies. The divergent interests of farmers and society regarding soil conservation and water quality are discussed. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Feb 1982. This publication presents 6 papers presented at a symposium at the AAEE annual meeting in July 1981. Available from NTIS - order no. PB82-195-728. Feb 1982. (AGES820129). 91 p. 17 ref. (NAL Call No.: 916762(AGE)).

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Sources and control of agricultural groundwater contamination Otter Creek-Dry Creek, Cortland County, NY.

Heimlich, R.E. Ithaca : The Station. Extract: This study found that agricultural sources (animal manure, fertilizer and plant residues) accounted for about 70 percent of nitrogen entering the Otter Creek-Dry Creek aquifer. Recharge concentrations and nitrogen loads per unit area were higher for urban land uses, but the amount of agricultural land over the aquifer is far larger than urban land. The study area used by the Cornell Center for Environmental Research roughly corresponds to the watershed and contains 3,116 acres (33%) urban uses and 5,473 acres (59%) agricultural uses. Agricultural nitrogen loadings, however, were not estimated in a farm unit context and management of these loadings was not considered. Cornell agricultural economics staff paper - Dept. of Agricultural Economics, Cornell University Agricultural Experiment Station. Aug 1982. Predominantly tables. Aug 1982. (82-26). 31 p. Includes 11 references. (NAL Call No.: HD1407.C6).

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Use and cost of soil conservation and water quality practices in the Southeast.

Russell, J.R. Christensen, L.A. Washington, D.C. : The Service. Extract: The most frequently used conservation practices in the Southeast are terracing, sod waterways, permanent vegetative cover crops, and conservation tillage. Costs of terracing per acre ranged from \$125 in Kentucky to \$17 in South Carolina. Sod waterway costs ranged from \$1,854 in Kentucky to \$858 in Tennessee. Permanent vegetative cover costs ranged from a high of \$121 in South Carolina to a low of \$73 in North Carolina. Conservation tillage costs ranged from a high of \$48 per acre in Florida to a low of \$9 in Tennessee. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Feb 1984. Available from NTIS, order no. PB84-161173. Feb 1984. (AGES831928). 19 p. Includes 16 references. (NAL Call No.: 916762(AGE)).

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Views of Soil and Water Conservation District directors regarding development and implementation of farm conservation plans and implications for water quality management planning in New York State.

Hexem, R.W. Trerise, S.M.; West, S.F.; Robillard, P.D. Ithaca, N.Y., The Station. A.E. Res. - Dept. of Agricultural Economics, Cornell University Agricultural Experiment Station. Jan 1979. Jan 1979. (79-3). 82 p. Includes ref. (NAL Call No.: 281.9 C81A).

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Water resources research: issues for the 1980's and beyond.

Napier, T.L. Scott, D.F. Columbus : The Department. ESO - Ohio State University, Dept. of Agricultural Economics and Rural Sociology. Nov 1983. Nov 1983. (1055). 27 p. Includes 8 references. (NAL Call No.: HD1411.03).

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An analytical system for the evaluation of land use and water quality policy impacts upon irrigated agriculture.

Horner, G.L. Dudek, D.J. Berkeley, The Department. Giannini Foundation paper - California, University, Berkeley, Dept. of Agricultural and Resource Economics. 1980. Second series title: Operations research in agriculture and water resources, 537-568 (1980). 1980. (573). 32 p. 27 ref. (NAL Call No.: 919815(AGE)).

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An anatomy of a groundwater contamination episode.

JEEMD. Shechter, M. New York, N.Y. : Academic Press. Journal of environmental economics and management. Mar 1985. v. 12 (1). p. 72-88. ill. Includes 29 references. (NAL Call No.: DNAL HC79.P55J6).

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Connecticut River Basin comprehensive water and related land resources investigation.

S.l. : Connecticut River Basin Coordinating Committee, 1970. Cover title. ~ Part of illustrative matter in pocket. ~ "June 1970.". 9 v. : ill., maps (some folded) ; 27 cm. (NAL Call No.: DNAL HD1695.C75C65).

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Consideration of offsite impacts in targeting soil conservation programs.

Ribaudo, M.O. Madison, Wis. : University of Wisconsin Press. Land economics. Nov 1986. v. 62 (4). p. 402-411. maps. Includes references. (NAL Call No.: DNAL 282.8 J82).

0257

Economics of size in dairy farm adjustment to water quality constraints.

Heimlich, R.E. Ithaca, N.Y., The Station. Extract: Adjustment of small, medium, and large Vermont dairy farms to successively tighter constraints on phosphorus loss was modeled using linear programming. Aggregate response to phosphorus control was estimated for an area from farm marginal costs. Medium and large farms have lower costs than small farms and could achieve higher levels of phosphorus reduction at the same proportional loss of income. Cornell agricultural economics staff paper - Dept. of Agricultural Economics, Cornell University Agricultural Experiment Station. July 1982. (82-20). 14 p. 9 ref. (NAL Call No.: HD1407.C6).

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Effects of land use and topography on some water quality variables in forested east Texas.

Chang, M. WARBA. McCullough, J.D.; Granillo, A.B. Minneapolis : American Water Resources Association. Water resources bulletin. Apr 1983. v. 19 (2). p. 191-196. ill., maps. Includes references. (NAL Call No.: 292.9 AM34).

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Evaluation of agricultural sediment control practices relative to water quality planning.

Robillard, P.D. Walter, M.F.; Hexem, R.W. College Park, Md. : The Council. Extract: Control of sediment has become increasingly important as an element of many water quality improvement programs. An analytical method using the universal soil loss equation and linear programming to determine the cost-effectiveness of alternative sediment control practices is developed. Applications of this method to four case study farms and a hypothetical watershed are analyzed. The analyses illustrate the need for developing priorities so as to achieve greatest reduction in sediment losses per dollar of cost. The costs per unit of sediment reduction vary greatly with area, soil, and strategy or technique used. Journal - Northeastern Agricultural Economics Council. Apr 1980. v. 9 (1). p. 29-36. Includes 10 references. (NAL Call No.: HD1773.A2N6).

0260

An examination of land use--nutrient export relationships (Phosphorus, nonpoint source pollution, agricultural, forest, urban, watershed).

Beaulac, M.N. WARBA. Reckhow, K.H. Minneapolis : American Water Resources Association. Water resources bulletin. Dec 1982. Literature review. v. 18 (6). p. 1013-1024. ill. 3 p. ref. (NAL Call No.: 292.9 AM34).

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Farm-level impacts of mandatory soil erosion standards.

JSWCA3. Ervin, D.E. Bryant, J.P.; Stampely, G.L. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. Includes statistical data. July/Aug 1984. v. 39 (4). p. 266-269. Includes 19 references. (NAL Call No.: DNAL 56.8 J822).

0262

Groundwater quality regulation in Colorado.
Looft, T.J. Fort Collins : The Institute.
Technical report - Colorado State University,
Colorado Water Resources Research Institute.
Dec 1982. Dec 1982. (38). 94 p. Includes 47
references. (NAL Call No.: 924893(AGE)).

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The hedonic approach: no panacea for valuing water quality changes.
Willis, C.E. Foster, J.H. College Park, Md. :
The Council. Extract: The hedonic approach has
been advanced recently as an important tool for
assessing the value of non-market environmental
attributes. In its most usual form, the method
involves an attempt econometrically to capture
differential prices for homes attributable to
variations in the environmental characteristic.
This technique has been applied with success
for a variety of attributes -- most notably the
study of air pollution. However, the case
studies reported here for water quality
valuation were much less successful. We advance
several reasons why the hedonic approach may be
ill-suited to measuring the value of water
quality. Journal - Northeastern Agricultural
Economics Council. 1983. v. 12 (1). p. 53-57.
Includes 17 references. (NAL Call No.:
HD1773.A2N6).

0264

Hydrologic and water quality effects of agricultural land development in the North Carolina tidewater region.
Skaggs, R.W. Gilliam, J.W.; Barnes, J.S. St.
Joseph, Mich. : The Society. Paper - American
Society of Agricultural Engineers (Microfiche
collection). 1982. Paper presented at the 1982
Winter Meeting of the American Society of
Agricultural Engineers. Available for purchase
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Dept. at (616) 429-0300 for information and
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: ill. Includes references. (NAL Call No.:
FICHE S-72).

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Impact of land use on ground-water quality (Delaware).
Ritter, W.F. Chirnside, A.E.M. St. Joseph,
Mich. : The Society. Paper - American Society
of Agricultural Engineers (Microfiche
collection). 1982. Paper presented at the 1982
Winter Meeting of the American Society of
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FICHE S-72).

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Influence of land utilization on hydrocarbon runoff pollution (Sediments, New Jersey).
Kashner, J.J. SED. Hunter, J.V. New York :
Marcel Dekker. Journal of environmental science
and health. Part A. Environmental science and
engineering. 1983. v. 18 (1). p. 135-144.
Includes references. (NAL Call No.: TD172.J6).

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Land use intensity index for lake watersheds (Water quality control, water resources management, land development planning and control methods, four Vermont lakes as examples).
Sargent, F.D. Burlington, Vt. : University of
Vermont. Research report - Vermont Agricultural
Experiment Station. May 1982. This publication
is a product of USDA-Hatch 212, "Land
Classification for Regional Planning.". May
1982 (12-3). 9 p. ill. Includes references.
(NAL Call No.: S541.5.V5R4).

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Long-term effects of land use and storm runoff on sediment loads (Japan).
Sueishi, T. Morioka, T.; Hasegawa, Y.; Hohji,
K. Littleton, Colo. : Water Resources
Publications, c1982. Urban stormwater quality,
management and planning : proceedings, Second
International Conference on Urban Storm
Drainage, held at Urbana, Illinois, USA, 15-19
June 1981 / edited by B.C. Yen. p. 191-200.
ill. Includes references. (NAL Call No.:
TD665.I57 1981A).

0269

Perceived water quality and the value of seasonal homes (Economic impact of water pollution, property values, control benefits, Lake Champaign, Vermont).
Young, C.E. Minneapolis, Minn. : American Water
Resources Association. Water resources
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AM34).

0270

Principles and processes involved in waste disposal and management (Assessment of land, water and air resources, soil characteristics).
Van Volk, V. Landa, E.R. Madison, Wis., Soil
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(NAL Call No.: 4 AM392).

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Some conceptual and empirical issues in estimating the demand for water quality.

Ribaudo, M.O. Epp, D.J. College Park, Md. : The Council. Journal - Northeastern Agricultural Economics Council. 1983. v. 12 (1). p. 59-60. Includes 3 references. (NAL Call No.: HD1773.A2N6).

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Stream-watershed relations in the Missouri Ozark Plateau Province.

JEVQAA. Smart, M.M. Jones, J.R.; Sebaugh, J.L. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. Jan/Mar 1985. v. 14 (1). p. 77-82. maps. Includes references. (NAL Call No.: DNAL QH540.U6).

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Surface application of sewage effluent and sludge (Water pollution, various methods including crop irrigation, forest application).

Sopper, W.E. Madison, Wis., Soil Science Society of America. Agronomy. A series of monographs - American Society of Agronomy. American Society of Agronomy. 1979. 1979. (21). p. 633-663. ill. Includes ref. (NAL Call No.: 4 AM392).

0274

A systems approach for agricultural land management and water quality control.

Trapanese, S.M. Smolen, M.D.; Younos, T.M. St. Joseph, Mich. : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. May/June 1984. v. 27 (3). p. 817-821. ill. Includes references. (NAL Call No.: 290.9 AM32T).

0275

Who should pay how much for soil and water conservation?.

JSWCA3. Seitz, W.D. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. Sept/Oct 1984. v. 39 (5). p. 308-309. (NAL Call No.: DNAL 56.8 J822).

0276

An enviromental risk index to evaluate pesticide programs in crop budgets.

Warner, M.E. Ithaca, N.Y. : The Station. A.E. Res. - New York State College of Agriculture and Life Sciences, Department of Agricultural Economics, Cornell University, Agricultural Experiment Station. June 1985. (85-11). 29 p. Includes 27 references. (NAL Call No.: DNAL 281.9 C81A).

0277

Technological change, government policies, and exhaustible resources in agriculture.

Zilberman, D. Ames, Iowa : American Agricultural Economics Association. Extract: This paper analyzes the use of an exhaustible resource by an agricultural industry, taking into account agricultural policy considerations and some of the unique conventional wisdom features of the agricultural sector. The model is especially appropriate for analyzing the utilization of water resources. The model assumes the agricultural industry to be competitive, to have a wide distribution of farm sizes, to go through a process of adoption of a continuously improving technology, and to face inelastic demand. The new technology considered is a land quality-improving technology which is similar in its properties to modern irrigation technologies (drip, sprinkler, and center pivot irrigation). In particular, it considers a price-support policy and its impacts. American journal of agricultural economics. This paper was presented at the "Annual Meeting at the American Agricultural Economics Association," held Aug. 5/8, 1984, Ithaca, N.Y. Dec 1984. v. 66 (5). p. 634-642. Includes 7 references. (NAL Call No.: DNAL 280.8 J822).

0278

Technological change, government policies, and exhaustible resources in agriculture: discussion.

McConnell, K.E. Ames, Iowa : American Agricultural Economics Association. American journal of agricultural economics. This paper was presented at the "Annual Meeting at the American Agricultural Economics Association," held Aug. 5/8, 1984, Ithaca, N.Y. Dec 1984. v. 66 (5). p. 643-644. (NAL Call No.: DNAL 280.8 J822).

FARM ORGANIZATION AND MANAGEMENT

0279

Agricultural best management practices and water quality demonstration and evaluation project : five-county North Central Oregon area, March 1981 to June 1981 / (Gerald O. George). -.

George, Gerald O. Corvallis Agricultural Experiment Station, Oregon State University 1982. January 1982. 67 p. : ill., map ; 28 cm. --. Bibliography: p. 67. (NAL Call No.: 100 Or3M no.646).

0280

Alternative strategies for implementing areawide water quality programs.

Kerns, W.R. Blacksburg, Va. : The Service. M.B. - Virginia Polytechnic Institute and State University. Cooperative Extension Service. Sept 1982. Sept 1982. (296). p. 77-82. Includes 10 references. (NAL Call No.: S544.3.V5M3).

0281

Alternatives to the use of agricultural drainage wells.

WARBA. Kanway, R.S. Baker, J.L.; Melvin, S.W. Minneapolis, Minn. : American Water Resources Association. Water resources bulletin. Aug 1986. v. 22 (4). p. 573-579. ill., maps. Includes references. (NAL Call No.: DNAL 292.9 AM34).

0282

Conservation tillage for water conservation.

Underwood, R.L. Unger, P.W.; Wiese, A.F.; Allen, R.R. Bozeman, Mont. : Montana State University, Cooperative Extension Service. Extract: Conservation tillage, mainly stubble mulch tillage, has been used for wind erosion control in the Southern Great Plains for many years. Currently, with the continued depletion of irrigation water along with limited and erratic precipitation, conservation tillage using herbicides is being used to increase soil water storage during fallow for subsequent use by crops. Compared with clean tillage, conservation tillage using herbicides increased water storage during fallow by over 50 percent on some clay loam soils in the Southern Great Plains. Because of high production costs, conservation tillage also has become attractive to farmers because it is a cost effective farming practice. Publication - Great Plains Agricultural Council. This paper was presented at the Great Plains Conservation Tillage symposium dated August 21-23, 1984, North Platte, Nebraska. Aug 21-23, 1984. (110). p. 227-234. Includes 21 references. (NAL Call No.: DNAL S27.A3).

0283

Controlling agricultural contamination of ground water (Includes economic aspects, New York).

Heimlich, R.E. Hamden : Cooperative Extension Association of Delaware County. Delaware County farm and home news. Sept 1983. v. 68 (9). p. 8. (NAL Call No.: S544.3.N4D4).

0284

Cost effectiveness in water quality improvement from agricultural areas.

Lynne, G.D. Spreen, T.H.; Solove, R.A. Gainesville : The Department. Extract: Nitrogen and phosphorus loadings from the Everglades Agricultural Area in South Florida are increasing the rate of eutrophication in Lake Okeechobee. Suggested solutions range from structural to economic incentive approaches. The building of a water retention/storage structure was shown more cost effective, in a social cost sense, than either the directive or charge/taxation approach. However, the general taxpayer then pays the costs, as opposed to the specific users of the Lake. That is, the distributive effects are quite different dependent upon the approach adopted. Staff paper - University of Florida, Food and Resource Economics Department, Institute of Food and Agricultural Sciences. July 1982. July 1982. (211). 32 p. Includes 30 references. (NAL Call No.: HD1751.A1S73).

0285

Developing agricultural best management practices (Cost-effective solutions to water pollution, from both irrigated and rainfed agriculture).

Skogerboe, G.V. Walker, W.R.; Evans, R.G. New York : American Association of Agricultural Engineers, c1980. Irrigation and drainage today's challenges : proceedings 1980 specialty conference, July 23-25, 1980--Boise, Idaho / Jerry Eggleston, editor. p. 298-311. ill. Includes references. (NAL Call No.: TC823.I77).

0286

Discussion (soil conservation and water quality).

Musser, W.N. Washington, D.C., The Service. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Feb 1982. Publication titled "Perceptions, attitudes and risk: overlooked variables in formulating public policy on soil conservation and water quality." Available from NTIS - order no. PB82-195-728. Feb 1982. (AGES820129). p. 85-91. 17 ref. (NAL Call No.: 916762(AGE)).

(FARM ORGANIZATION AND MANAGEMENT)

0287

Diverging interests in soil conservation and water quality: society vs. the farmer.
Crosson, P. Washington, D.C., The Service. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Feb 1982. Publication titled "Perceptions, attitudes and risk: overlooked variables in formulating public policy on soil conservation and water quality." Available from NTIS - order no. PB82-195-728. Feb 1982. (AGES820129). p. 50-69. 15 ref. (NAL Call No.: 916762(AGE)).

0288

Economic and environmental effects of agricultural management decisions in the Lower Sheyenne River Basin /Rodney J. Ehni and William C. Nelson. --.
Ehni, Rodney J. Nelson, William C. Fargo, N.D. : Dept. of Agricultural Economics, North Dakota Agricultural Experiment Station, North Dakota State University, 1977. Cover title.~ "December 1977.". ii, 72 p. : ill. ; 28 cm. --.
Bibliography: p. 61-63. (NAL Call No.: DNAL 281.9 N814A no.124).

0289

Economic aspects of wastewater irrigation.
Crites, R.W. Meyer, E.L. New York : American Society of Civil Engineering, c1981.
Proceedings of the specialty conference Water Forum '81 : host, San Francisco Section, ASCE, San Francisco, California, August 10-14, 1981 / sponsored by the Environmental Engineering Division ... (et al.). p. 616-623. 5 ref. (NAL Call No.: TD201.W334 1981).

0290

Economic benefits associated with boating and canoeing on the lower Wisconsin River.
Boyle, K.J. Bishop, R.C. Madison, Wis. : The Department. Economic issues - Department of Agricultural Economics, College of Agricultural and Life Sciences, University of Wisconsin. Feb 1984. Feb 1984. (84). 4 p. (NAL Call No.: HD1775.W6E25).

0291

Economic implications of water pollution abatement in family farm livestock production by Roy N. Van Arsdall and James B. Johnson. --.
Van Arsdall, Roy N., 1924-. Washington, D.C. : U.S. Dept. of Agriculture, Economic Research Service, 1972. vi, 44 p. : ill., maps --.
Includes bibliographical references. (NAL Call No.: DNAL Fiche S-82 no.508).

0292

Economics of size in dairy farm adjustment to water quality constraints.
Heimlich, R.E. Ithaca, N.Y., The Station. Extract: Adjustment of small, medium, and large Vermont dairy farms to successively tighter constraints on phosphorus loss was modeled using linear programming. Aggregate response to phosphorus control was estimated for an area from farm marginal costs. Medium and large farms have lower costs than small farms and could achieve higher levels of phosphorus reduction at the same proportional loss of income. Cornell agricultural economics staff paper - Dept. of Agricultural Economics, Cornell University Agricultural Experiment Station. July 1982. July 1982. (82-20). 14 p. 9 ref. (NAL Call No.: HD1407.C6).

0293

Economics of subsurface drainage systems for alfalfa hay.
TAAEA. Bornstein, J. Skinner, S.P.; Reiling, S.D. St. Joseph, Mich. : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Mar/Apr 1986. v. 29 (2). p. 484-488. Includes 7 references. (NAL Call No.: DNAL 290.9 AM32T).

0294

Effects of risk perceptions and other characteristics of farmers and farm operations on the adoption of conservation tillage practices.
AAREEZ. Shortle, J.S. Miranowski, J.A. New York : Springer. Applied agricultural research. 1986. v. 1 (2). p. 85-90. Includes references. (NAL Call No.: DNAL S539.5.A77).

0295

Efficiently reducing nonpoint phosphorus loads to lakes and reservoirs.
WARBA. Ogg, C.W. Heimlich, R.; Pionke, H. Minneapolis, Minn. : American Water Resources Association. Extract: Several problems that make it difficult to deal with water pollution from cropland are identified. The most immediate need is for a rational framework for determining where conservation programs can make an impact on eutrophication problems in reservoirs draining rural watersheds. This includes estimating the level of control that would be required for each local farm situation and the economic impacts for the planning area. A modeling approach is suggested for a planning area in Southeastern Pennsylvania. Water resources bulletin. Dec 1980. v. 16 (6). p. 967-970. Includes 19 references. (NAL Call No.: DNAL 292.9 AM34).

0296

Farm-level impacts of mandatory soil erosion standards.

JSWCA3. Ervin, D.E. Bryant, J.P.; Stampley, G.L. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. Includes statistical data. July/Aug 1984. v. 39 (4). p. 266-269. Includes 19 references. (NAL Call No.: DNAL 56.8 J822).

0297

Farmers' attitudes and conservation practices which affect agricultural water quality in northwest Ohio.

Kroetz, M.E. Schindler, R.A.; Phillips, G.H.; Rettig, R. Columbus : The Department. ESO - Ohio State University, Dept. of Agricultural Economics and Rural Sociology. Dec 1979. Dec 1979. (676). 33 p. Includes 6 references. (NAL Call No.: HD1411.03).

0298

Farmers attitudes: omitted factors in nonpoint pollution policy.

Smathers, W.M. Jr. Washington, D.C., The Service. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Feb 1982. Publication titled "Perceptions, attitudes and risk: overlooked variables in formulating public policy on soil conservation and water quality." Available from NTIS - order no. PB82-195-728. Feb 1982. (AGES820129). p. 38-49. 12 ref. (NAL Call No.: 916762(AGE)).

0299

Interested parties can improve the quality and quantity of services provided by the Chesapeake Bay.

Marshall, J.P. Mabbs-Zeno, C.C. Blacksburg, Va. : The Service. Extract: This article has illustrated that private citizens acting as interested parties can contribute to improving the quality and quantity of services of the Chesapeake Bay. To do so, they must carefully choose the service they desire to improve, understand the form of ownership of the service, determine how the authority and power of managing the service is held, decide whether their carefully chosen actions involve improving services that are competitive or complementary, and determine the scale of effort needed. Land; issues and problems - Virginia Polytechnic Institute and State University, Cooperative Extension Service. May 1980. May 1980. (53). 4 p. (NAL Call No.: HD184.V8L3).

0300

On the economics of desalination of brackish household water supplies.

JEEMD. McGuckin, J.T. Young, R.A. New York, N.Y. : Academic Press. Journal of environmental economics and management. May 21, 1979. (8). p. 79-91. Includes 16 references. (NAL Call No.: DNAL HC79.P55J6).

0301

Overlooked variables in BMP implementation: risk attitudes, perceptions and human capital characteristics (best management practice).

Miranowski, J.A. Washington, D.C., The Service. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Feb 1982. Publication titled "Perceptions, attitudes and risk: overlooked variables in formulating public policy on soil conservation and water quality." Available from NTIS - order no. PB82-195-728. Feb 1982. (AGES820129). p. 7-18. 6 ref. (NAL Call No.: 916762(AGE)).

0302

Perceptions, attitudes, and risk: overlooked variables in formulating public policy on soil conservation and water quality - discussion.

Ervin, D.E. Washington, D.C., The Service. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Feb 1982. Publication titled "Perceptions, attitudes and risk: overlooked variables in formulating public policy on soil conservation and water quality." Available from NTIS - order no. PB82-195-728. Feb 1982. (AGES820129). p. 70-84. 11 ref. (NAL Call No.: 916762(AGE)).

0303

Planning to control non-point water pollution: an agricultural management dilemma.

JFMRA. Carruthers, G.E. Denver : The Society. Journal of the American Society of Farm Managers and Rural Appraisers. Apr 1979. v. 43 (1). p. 50-56. Includes 20 references. (NAL Call No.: DNAL 281.8 AM32).

0304

A proposal for a Chesapeake Bay trust fund.

Shabman, L.A. Blacksburg, Va. : The Service. Extract: This study describes the relative contribution of point-source and nonpoint-source pollutants to the current ambient levels of nitrogen, phosphorous, and selected toxics, and it suggests levels of pollution control for separate segments of the Bay. Land; issues and problems - Virginia Polytechnic Institute and State University, Cooperative Extension Service. Feb 1984. Feb 1984. (64). 4 p. Includes 10 references. (NAL Call No.: HD184.V8L3).

(FARM ORGANIZATION AND MANAGEMENT)

0305

Protection of public water supplies from non-point pollution - the state role and needed institutional modifications.

Cox, W.E. Blacksburg, Va. : The Service. Extract: Because non-point pollution has an intimate relationship to land-use activities, effective control requires a combination of local and state regulatory mechanisms. This article reviews the existing state role in protecting public water supplies from non-point pollution and considers possible institutional modifications for achieving more effective protection. Land; issues and problems - Virginia Polytechnic Institute and State University, Cooperative Extension Service. Jan 1980. Jan 1980. (49). 4 p. Includes 24 references. (NAL Call No.: HD184.V8L3).

0306

Recreation benefits from an improvement in water quality at St. Albans Bay, Vermont.

Ribaudo, M. Young, C.E.; Epp, D. Washington, D.C. : The Service. Extract: A 1982 survey of recreationists using the northeastern portion of Lake Champlain indicates that improving the water quality of St. Albans Bay, Vermont, would produce significant economic benefits. St. Albans Bay is currently suffering nutrient enrichment problems from both point and nonpoint sources. Applying the survey data to a travel cost model produced a benefit estimate for clean water of \$537,000 per year for recreationists. Recreation benefits for clean water estimated by using the contingent rating method came to \$230,000 per year. The two methods are compared and reasons given as to why the contingent rating results may be more accurate. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Available from NTIS, order no. PB84-167238. Mar 1984. (AGES840127). 28 p. Includes 14 references. (NAL Call No.: DNAL AGE 916762(AGE)).

0307

Reply to discussion by Ronald A. Chadderton "Farmers' attitudes toward government involvement in preventing agricultural nonpoint source water pollution".

Lovejoy, S.B. Minneapolis, Minn. : American Water Resources Association. Extract: Discussion of property rights assignment in water quality decisions. Also discusses the roles of government and the private sector in protecting the quality of our water. Water resources bulletin. Aug 1983. v. 19 (4). 2 p. (NAL Call No.: 292.9 AM34).

0308

Sharing regional cooperation gains from reusing effluent for irrigation.

WRERA0. Dinar, A. Yaron, D.; Kannai, Y. Washington, D.C. : American Geophysical Union. Water resources research. Mar 1986. v. 22 (3). p. 339-344. Includes references. (NAL Call No.: DNAL 292.8 W295).

0309

User perceptions of benefits from water supplied by Cuming County Rural Water District.

Janovec, T.M. Gessaman, P.H. Lincoln, Neb. : The Station. Extract: This study was a first attempt to identify, and, to the extent possible, to quantify the economic benefits accruing to water users due to their use of water supplied by the Cuming County Rural Water District. Specific objectives of the research were: 1. To identify the sources of water used by the respondents; 2. To identify the principal uses of these water supplies; and 3. To identify and estimate the benefits respondents realize from the use of water supplied by the Rural Water System. Report - Department of Agricultural Economics, University of Nebraska, Agricultural Experiment Station. (1983?). (1983?). (130). 31 p. (NAL Call No.: 281.9 N27).

0310

Water resource development impacts in the Green River drainage of Wyoming.

Franklin, D.R. Jacobs, J.J.; Farris, P.J. Laramie : The Station. Extract: This project focuses on the substitution of capital for water within and between the agricultural and energy sectors of the Green River drainage basin economy in Wyoming. The substitution process is analyzed both with the imposition of a salinity regulation and without the regulation. This study compares alternative courses of action to achieve economic growth in the basin. Research journal - University of Wyoming, Agricultural Experiment Station. Nov 1983. Nov 1983. (RJ189). 33 p. Includes 48 references. (NAL Call No.: S131.E22).

0311

Wetland values in the prairie pothole region of North America.

PGPCA. Linder, R.L. Hubbard, D.E. Lincoln, Neb. : The Council. Extract: Wetlands are important to wildlife in the Prairie Pothole Region of North America. A diversity of wetland types is needed to maintain wildlife populations. Values discussed in this paper in addition to wildlife are: water retention, water quality, forage production, ground water recharge, and aesthetics. Economic values of wetlands must be quantified in order for decision makers to program fate of wetlands in the future. Proceedings - Great Plains Agricultural

Council. This paper was presented at the annual meeting of the Great Plains Agricultural Council held June 7/9, 1982, North Platte, Nebraska. June 7-9, 1982. p. 27-39. Includes 93 references. (NAL Call No.: DNAL 282.9 G7992).

INTERNATIONAL DEVELOPMENT AID, AIMS, POLICIES, PROGRAMS

0312

Wastewater effects on a waterhyacinth marsh and adjacent impoundment (*Eichhornia crassipes*, Florida).

Vega, A. Ewel, K.C. Nov 1981. v. 5 (6).

Environmental management. Nov 1981. v. 5 (6).

p. 537-541. ill. 15 ref. (NAL Call No.:

HC79.E5E5).

0313

**Rural residents' opinions on acid rain in a
39-town area of upstate New York.**

Raymond, L.S. Jr. Ithaca, N.Y. : Center for
Environmental Research, Cornell University,
Ithaca, 1984? . Proceedings of the Second New
York State Symposium on Atmospheric Deposition,
October 26-27, 1983, Hilton Hotel, Albany, New
York / editor, Jay S. Jacobson. p. 273-280.
maps. Includes references. (NAL Call No.: DNAL
TD196.A25N48 1983).

RURAL DEVELOPMENT

0314

Environmental protection and economic development in Guatemala's western highlands (Cleansing of soil, air and water by natural biological metabolism).

Hoy, D.R. Belisle, F.J. Macomb : Western Illinois University Press. The Journal of developing areas. Jan 1984. v. 18 (2). p. 161-176. maps. Includes 2 p. references. (NAL Call No.: HC59.7.A1J6).

0315

Water/growth issues in El Dorado County. -. (Berkeley, Calif.?) University of California Cooperative Extension 1980. Abstract: This report explores potential social, economic, and environmental impacts of the proposed upper South Fork of the American River project (SOFAR), a water and power development project in El Dorado County, California. Two key issues are addressed: (1) the effect of changes in water supply on population, especially population growth, and (2) the future role of agriculture in the county. The report is intended to provide information to voters to help them decide whether or not to support the revenue bond issue for development of the upper river. "Report of a University of California Cooperative Extension Study Group. ~At head of title: The Upper SOFAR Project. 25 leaves ; 28 cm. Includes bibliographical references. (NAL Call No.: TC424.C2W6).

RURAL COMMUNITY SERVICES

0316

Development of innovative flotation-filtration systems for water treatment. B. Dissolved air flotation plants for small communities.

Krofta, M. Wang, L.K. Denver, Colo. : AWWA Research Foundation, c1985. Future of water reuse : proceedings of the Water Reuse Symposium III, August 26-31, 1984, San Diego, California / co-sponsored by American Society of Civil Engineers ... et al. . p. 1238-1250. ill. Includes 20 references. (NAL Call No.: DNAL TD429.W3 1984).

0317

Development of innovative flotation-filtration systems for water treatment. C. An electroflotation plant for single families and institutions.

Krofta, M. Wang, L.K. Denver, Colo. : AWWA Research Foundation, c1985. Future of water reuse : proceedings of the Water Reuse Symposium III, August 26-31, 1984, San Diego, California / co-sponsored by American Society of Civil Engineers ... et al. . p. 1251-1264. ill. (NAL Call No.: DNAL TD429.W3 1984).

0318

Economic analysis of wastewater treatment: alternatives in rural Texas communities.

TAEBA. Victorine, R.F. Goodwin, H.L. Jr.; Lacewell, R.D. College Station, Tex. : The Station. Bulletin B - Texas Agricultural Experiment Station. Jan 1985. (1491). 15 p. Includes references. (NAL Call No.: DNAL 100 T31S (1)).

0319

Economic incentives for improving municipal wastewater treatment in Minnesota.

Eckmann, S. Easter, K.W.; Waelti, J.U. St. Paul, Minn., The Department. Extract: This report approaches the problem of water quality from the standpoint of individual municipal wastewater treatment plants. The objectives of this study are: (1) to identify factors limiting the performance of treatment plants; (2) to evaluate the relationship between the Construction Grant Program and operation and maintenance (O&M); (3) to examine ways to provide incentives to maintain water quality and achieve minimum treatment cost; and (4) to provide the Minnesota Pollution Control Agency with information and suggestions on the feasibility of a state assistance program for the O&M of municipal wastewater treatment plants. Economic report - University of Minnesota, Department of Agricultural and Applied Economics. Dec 1981. Dec 1981. (ER81-9). 59 p. 33 ref. (NAL Call No.: HD1775.M5M5).

0320

EPA's (Environmental Protection Agency) planning and management approach for small alternative wastewater systems--a solution for small communities (USA).

Staudt, J.G. Jr. Niehus, D.C. St. Joseph, Mich. : American Society of Agricultural Engineers, 1982. Proceedings of the Third National Symposium on Individual and Small Community Sewage Treatment : December 14-15, 1981, The Palmer House, Chicago, Illinois. p. 229-235. Includes references. (NAL Call No.: TD746.N37 1981).

0321

Estimating the economic value of nutrients in municipal sewage effluent used for irrigation at Pauls Valley, Oklahoma.

Cabiness, S.G. Badger, D.D. Stillwater, Okla., The Station. Oklahoma current farm economics - Oklahoma, Agricultural Experiment Station. Dec 1980. v. 53 (4). p. 25-29. 4 ref. (NAL Call No.: 100 OK4 (5)).

0322

The importance of sample discrimination in using the travel cost method to estimate the benefits of improved water quality.

Ribaudo, M.O. Epp, D.J. Madison, Wis. : University of Wisconsin Press. Land economics. Includes statistical data. Nov 1984. v. 60 (4). p. 397-403. Includes 13 references. (NAL Call No.: DNAL 282.8 J82).

0323

Nitrate contents of well, raw, treated and pipe borne water in Vom, Plateau State, Nigeria.

VHTOD. Gbodi, T.A. Atawodi, S.E. Manhattan, Kan. : American Academy of Veterinary and Comparative Toxicology. Veterinary and human toxicology. Apr 1987. v. 29 (2). p. 151-152. Includes references. (NAL Call No.: DNAL SF601.A47).

0324

Rural water quality is studied (U.S. Environmental Protection Agency, Northeastern States).

Raymond, L. Jr. Batavia : Agricultural Divisions of Cooperative Extension, Four Western Plain Counties, N.Y. State. Ag impact. Aug 1983. v. 10 (8). p. 4. (NAL Call No.: S544.3.N7A45).

(RURAL COMMUNITY SERVICES)

0325

Scale economies in rural water supply systems and water quality standards of the U.S.

Environmental Protection Agency.

Vaidya, R. Allee, D.J. Ithaca, N.Y. : The Station. Extract: The general purpose of this study was to explore ways of improving the quality of rural water without adding to its cost. In specific the study examined a number of rural community systems in operation to discover (1) whether the average cost of producing water tended to be less for large systems, (2) whether such scale effects were large enough to mitigate the scale diseconomies likely to occur because of decreasing customer density as service areas expand, and (3) whether sufficient margin will remain for improving the quality of the water produced without escalating the cost. A.E. Res. - New York State College of Agriculture and Life Sciences, Department of Agricultural Economics, Cornell University, Agricultural Experiment Station. Apr 1982. Apr 1982. (82-25). 61 p. Includes 14 references. (NAL Call No.: 281.9 C81A).

0326

Symposium on impacts on rural America of the Federal Water Pollution Control Act Amendments, P.L. 92-500.

Washington, The Service. Abstract: The three papers in this publication discuss municipal wastewater treatment, agricultural processing plant location and cost recovery, and control of fertilizer and soil erosion pollution. ESCS - U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service. Nov 1978. Papers and discussion at symposium held at joint annual meeting of the American Agricultural Economics Association and Western Agricultural Economics Association, August 2, 1977. Available from NTIS - order no. PB 289-610. Nov 1978. (40). 51 p. Includes ref. (NAL Call No.: aHD1751.U56).

0327

Use of a microcomputer in the administration of sanitation programs in small communities (Food service sanitation and water sampling programs).

Emery, H. Ames, Iowa : International Association of Milk, Food and Environmental Sanitarians, Inc. Dairy and food sanitation. Jan 1984. v. 4 (1). p. 7-8. (NAL Call No.: SF221.D342).

PROTECTION OF PLANTS

0328

Chemical application with the multifunction LEPA system.

TAAEA. Lyle, W.M. Bordovsky, J.P. St. Joseph, Mich. : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Nov/Dec 1986. v. 29 (6). p. 1699-1706. Includes references. (NAL Call No.: DNAL 290.9 AM32T).

0329

Chemigation: a practical overview.

Bisconer, I. St. Joseph, Mich. : American Society of Agricultural Engineers, c1985. Drip/trickle irrigation in action : proceedings of the Third International Drip/Trickle Irrigation Congress, November 18-21, 1985, Centre Plaza Holiday Inn, Fresno, California, USA. p. 477-484. Includes 4 references. (NAL Call No.: DNAL S612.I5 1985).

0330

Chemigation technology.

Threadgill, E.D. Dowler, C.C.; Young, J.R.; Akerman, J. Bethesda, Md. : The Institute, 1985. Improving agrochemical and fertilizer application technology : a conference / spon. Agricultural Research Institute in coop. with U.S. Dept. of Agriculture, Agricultural Research Service ... et al. . p. 123-132. (NAL Call No.: DNAL SB953.I5).

0331

Diagnostics for plant-related agriculture.

Marsden, J. Miller, S. Stamford, Conn. : Cahners Exposition Group, c1985. Bio Expo 85 / organized and presented by Cahners Exposition Group. Paper presented at "Bio Expo 85," May 14-16, 1985, Boston, Massachusetts. p. 29-38. Includes references. (NAL Call No.: DNAL TP248.2.B5 1985).

0332

Effects of acid precipitation on plant diseases.

Bruck, R.I. Shafer, S.R. Boston : Butterworth, c1984. Direct and indirect effects of acidic deposition on vegetation / edited by Rick A. Linthurst. Paper presented at a "Symposium on Acid Precipitation" at the annual meeting of the American Chemical Society, March 1982, Las Vegas, Nevada. p. 19-32. Includes 51 references. (NAL Call No.: DNAL QH545.A17D56).

0333

Effects of acidic deposition on forest vegetation: interaction with insect and microbial agents of stress.

Smith, W.H. Geballe, G.; Fuhrer, J. Boston : Butterworth, c1984. Direct and indirect effects of acidic deposition on vegetation / edited by Rick A. Linthurst. Paper presented at a "Symposium on Acid Precipitation" at the annual meeting of the American Chemical Society, March 1982, Las Vegas, Nevada. p. 33-50. ill. Includes 68 references. (NAL Call No.: DNAL QH545.A17D56).

0334

The grass may be greener, but.

NYFLAV. Petrovic, A.M. Hummel, N.W. Jr. Ithaca, N.Y. : New York Agric. Exp. Stations and New York State College of Agric. & Life Sciences. New York's food and life sciences quarterly. 1987. v. 17 (1). p. 24-26. ill. Includes references. (NAL Call No.: DNAL S95.E2).

0335

A microcomputer based controller for flow regulation of a chemigation pump.

Thomson, S.J. Threadgill, E.D. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1985 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, Summer 1985. (fiche no. 85-2066). 11 p. (NAL Call No.: DNAL FICHE 290.9 AM32P).

0336

Subsurface drip irrigation of cotton and small grains.

Tollefson, S. St. Joseph, Mich. : American Society of Agricultural Engineers, c1985. Drip/trickle irrigation in action : proceedings of the Third International Drip/Trickle Irrigation Congress, November 18-21, 1985, Centre Plaza Holiday Inn, Fresno, California, USA. p. 887-895. Includes 7 references. (NAL Call No.: DNAL S612.I5 1985).

0337

Why home fruit trees die.

Colt, W.M. Bell, S.M.; Baird, C.R.; Cook, W.F. Moscow, Idaho : The Service. Current information series - Cooperative Extension Service, University of Idaho. July 1986. (776). 2 p. (NAL Call No.: DNAL 275.29 ID13IDC).

PESTS OF PLANTS – GENERAL AND MISC.

0338

Toxicity of certain pesticides to two economic species of snails in northern India (*Lymnaea acuminata*, *Pila globosa*, pests of livestock and water-submerged crops).

Singh, O. Agarwal, R.A. College Park, Md., Entomological Society of America. Journal of economic entomology. Oct 1981. v. 74 (5). p. 568-571. 11 ref. (NAL Call No.: 421 J822).

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Appel, D.N. St. Paul, Minn. : American Phytopathological Society. Plant disease. Oct 1984. v. 68 (10). p. 851-853. ill. Includes 20 references. (NAL Call No.: 1.9 P69P).

0388

***Cercospora* leaf spot management decisions: uses of a correlation between rainfall and disease severity to evaluate the Virginia leaf spot advisory.**

PHYTAJ. Johnson, C.S. Phipps, P.M.; Beute, M.K. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Sept 1986. v. 76 (9). p. 860-863. Includes references. (NAL Call No.: DNAL 464.8 P56).

0389

Chemical control of *Typhula* and *Fusarium* snow molds, 1978-79 (Bluegrass (annual) (*Poa annua*), pink snow mold; *Fusarium nivale*, gray snow mold; *Typhula incarnata*).

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Colonization patterns of *Verticicladiella procera* in Scots and eastern white pine and associated resin-soaking, reduced sapwood moisture content, and reduced needle water potential.

PHYTAJ. Horner, W.E. Alexander, S.A.; Lewis, K.J. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Apr 1987. v. 77 (4). p. 557-560. Includes references. (NAL Call No.: DNAL 464.8 P56).

0392

Comparative studies with two *Geotrichum* species inciting postharvest decays of tomato fruit (*Lycopersicon esculentum*, sour rot, watery rot, fungicide trials with *Geotrichum candidum* and *Geotrichum penicillatum*).

Moline, H.E. St. Paul, American Phytopathological Society. Plant disease. Jan 1984. v. 68 (1). p. 46-48. Includes references. (NAL Call No.: 1.9 P69P).

0393

Comparison of broadcast and transplant water application of Ridomil for blue mold control, 1980 (Tobacco (*Nicotiana tabacum* 'Kentucky 17'), blue mold; *Peronospora tabacina*).

Nesmith, W.C. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 106. (NAL Call No.: 464.9 AM31R).

0394

Comparison of broadcast, transplant water and foliar applications of Ridomil for controlling blue mold in Burley tobacco fields, 1980 (Tobacco (*Nicotiana tabacum* 'hybrid Ky 21 X Ky 10'), blue mold; *Peronospora tabacina*).

Nesmith, W.C. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 106. (NAL Call No.: 464.9 AM31R).

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Comparison of hot-water spray and immersion treatments for control of postharvest decay of papaya (Stem-end rots and anthracnose).

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Comparison of meteorological and standardized timings of fungicide applications for soybean disease control (*Glycine max*, system based on rainfall frequency, Alabama).

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0397

Comparisons of fungicide formulations for controlling snow mold, 1979 (Bentgrass and annual bluegrass (*Agrostis palustris* and *Poa annua*), Typhula blight; *Typhula* spp., *Fusarium* patch; *Fusarium nivale*).

Smiley, R.W. Craven, M.M. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 155-156. (NAL Call No.: 464.9 AM31R).

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Comparisons of fungicide formulations for controlling snow molds, 1980 (Bentgrass (*Agrostis palustris*), Typhula blight; *Typhula* sp., *Fusarium* patch; *Fusarium nivale*).

Harrison, M.B. Craven, M.M.; Smiley, R.W. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 136-137. (NAL Call No.: 464.9 AM31R).

0399

Continued protection against apple scab from fungicide residues depleted by rainfall, 1981 (Apple (*Malus sylvestris* 'Rome Beauty', 'McIntosh', 'Niagara'), apple scab; *Venturia inaequalis*).

Szkolnik, M. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 17. (NAL Call No.: 464.9 AM31R).

0400

Control of *Phytophthora* root and crown and trunk canker in walnut with metalaxyl and fosetyl Al.

PLDRA. Matherson, M.E. Mircetich, S.M. St. Paul, Minn. : American Phytopathological Society. Plant disease. Dec 1985. v. 69 (12). p. 1042-1043. Includes 12 references. (NAL Call No.: DNAL 1.9 P69P).

0401

Control of pink and gray snow mold on bentgrass under golf course conditions, 1979 (Bentgrass (creeping) (*Agrostis palustris*), snow mold; *Fusarium nivale*, *Typhula incarnata*).

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0402

Controlling snowmold in dryland wheat.
UTSCB. Cartee, R.L. Nielson, R.F.; Tindall, T.A. Logan : The Station. Utah Science - Utah Agricultural Experiment Station. Winter 1986. v. 47 (4). p. 124-132. ill. Includes references. (NAL Call No.: DNAL 100 UT1F).

0403

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0404

A disk camera system for automatic recording of visual data: snow depth in field plots.
PHYTAJ. Alberga, A.H. Marosy, M.; Tanner, C.B.; Upper, C.D. St. Paul, Minn. : American Phytopathological Society. Phytopathology. June 1987. v. 77 (6). p. 927-929. ill. Includes references. (NAL Call No.: DNAL 464.8 P56).

0405

Distribution of Rhabdocline and Swiss needle casts on Douglas-fir Christmas trees in New Hampshire.
PLDRA. Harrington, T.C. St. Paul, Minn. : American Phytopathological Society. Plant disease. Nov 1986. v. 70 (11). p. 1069-1070. maps. Includes references. (NAL Call No.: DNAL 1.9 P69P).

0406

Dwarf bunt of wheat in China: potential sites from satellite studies.
AGJDAT. Trione, E.J. Hall, M.J. Madison, Wis. : American Society of Agronomy. Agronomy journal. Jan/Feb 1986. v. 78 (1). p. 148-150. maps. Includes 20 references. (NAL Call No.: DNAL 4 AM34P).

0407

Dwarf mistletoe as a host for brown felt blight in California.
PLDRA. Scharpf, R.F. St. Paul, Minn. : American Phytopathological Society. Plant disease. Aug 1986. v. 70 (8). p. 798-799. Includes 10 references. (NAL Call No.: DNAL 1.9 P69P).

0408

The effect of hypochlorite wash treatments on potato suberization.
APOJA. Vander Zaag, R. Chase, R.W.; Hammerschmidt, R. Orono, Me. : Potato Association of America. American potato journal. Aug 1985. v. 62 (8). p. 409-418. Includes 21 references. (NAL Call No.: DNAL 75.8 P842).

0409

Effect of irrigation regimes on aflatoxin contamination of peanut pods.
PNTSB. Wilson, D.M. Stansell, J.R. Raleigh : American Peanut Research and Education Society. Peanut science. July/Dec 1983. v. 10 (2). p. 54-56. Includes 12 references. (NAL Call No.: DNAL SB351.P3P39).

0410

Effect of phloem water relations on the growth of *Phytophthora cinnamomi* in *Eucalyptus marginata*.
PHYTAJ. Tippet, J.T. Crombie, D.S.; Hill, T.C. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Feb 1987. v. 77 (2). p. 246-250. Includes references. (NAL Call No.: DNAL 464.8 P56).

0411

Effect of soil water matric potential on resistance to *Fusarium oxysporum* f. sp. *medicaginis* in alfalfa (*Medicago sativa*, wilt).
Emberger, G. PHYTA. Welty, R.E. St. Paul : American Phytopathological Society. Phytopathology. Feb 1983. v. 73 (2). p. 208-212. 18 ref. (NAL Call No.: 464.8 P56).

0412

Effect of Spray-Aide on performance of Benlate and Dikar in slightly alkaline water, 1982 (Control of diseases of apples, *Malus sylvestris*).
Yoder, K.S. FNETD. Cochran, A.E. II; Warren, J.R.; Nicholls, S.A.; Polk, D.C. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 161. (NAL Call No.: 464.9 AM31R).

0413

Effect of water activity and temperature on mycotoxin production by *Alternaria alternata* in culture and on wheat grain.
Magan, N. Cayley, G.R.; Lacey, J. Washington, D.C. : American Society for Microbiology. Applied and environmental microbiology. May 1984. v. 47 (5). p. 1113-1117. Includes

references. (NAL Call No.: 448.3 AP5).

0414

Effect of water management on the epidemic development of rice blast.

Kim, C.H. Rush, M.C.; MacKenzie, D.R. Crowley : The Station. Annual progress report - Louisiana, Agricultural Experiment Station. 1984. (76th). p. 274-276. (NAL Call No.: DNAL 100 L93 (3)).

0415

Effect of water potential on survival of sclerotia of *Sclerotinia minor* in two California soils.

PHYTAJ. Abawi, G.S. Grogan, R.G.; Duniway, J.M. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Feb 1985. v. 75 (2). p. 217-221. ill. Includes 19 references. (NAL Call No.: DNAL 464.8 P56).

0416

Effect of water stress and infection by *Ustilago striiformis* or *Urocystis agropyri* on leaf turgor and water potentials of Kentucky bluegrass.

CRPSAY. Nus, J.L. Hodges, C.F. Madison, Wis. : Crop Science Society of America. Crop science. Mar/Apr 1985. v. 25 (2). p. 322-326. ill. Includes 31 references. (NAL Call No.: DNAL 64.8 C883).

0417

Effects of simulated acidic rain on retention of pesticides on leaf surfaces.

PHYTAJ. Troiana, J. Butterfield, E.J. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Nov 1984. v. 74 (11). p. 1377-1380. Includes 17 references. (NAL Call No.: DNAL 464.8 P56).

0418

Effects of simulated acidic rain on wash-off of fungicides and control of late blight on potato leaves.

PHYTAJ. Van Bruggen, A.H.C. Osmeloski, J.F.; Jacobson, J.S. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Aug 1986. v. 76 (8). p. 800-804. Includes references. (NAL Call No.: DNAL 464.8 P56).

0419

Effects of water rinse treatments on occurrence of fungi on spruce seed from the Towner Nursery, North Dakota.

James, R.L. Missoula, Mont. : The Region. Report - USDA Forest Service, Forest Pest Management, Northern Region. Mar 1987. (87-5). 4 p. Includes references. (NAL Call No.: DNAL aSD11.U585).

0420

Efficacy of citrus postharvest fungicides applied in water or resin solution water wax (Control of *Diplodia natalensis* and *Penicillium digitatum*, causes of stem-end rot and green mold on stored fruit).

Brown, G.E. St. Paul, Minn. : American Phytopathological Society. Plant disease. May 1984. v. 68 (5). p. 415-418. ill. Includes references. (NAL Call No.: 1.9 P69P).

0421

Evaluation of fungicide drenches and transplant water treatments for *Phytophthora* control, 1979 (Petunia (*Petunia grandiflora* 'White Cascade'), crown rot; *Phytophthora cactorum*).

Nesmith, W.C. Pair, J. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 141. (NAL Call No.: 464.9 AM31R).

0422

Evaluation of preplant, transplant water and layby applications of fungicides for blue mold control on Burley tobacco, 1983.

FNEDT. Nesmith, W.C. s.l. : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1985. v. 40. p. 162-163. (NAL Call No.: DNAL 464.9 AM31R).

0423

Excess soil water and phytophthora root rot stresses of phytophthora root rot sensitive and resistant alfalfa cultivars.

AGJOAT. Alva, A.K. Lanyon, L.E.; Leath, K.T. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1985. v. 77 (3). p. 437-442. ill. Includes 29 references. (NAL Call No.: DNAL 4 AM34P).

0424

Extracellular polysaccharides of phytopathogenic fungi.

Dubourdieu, D. Philadelphia : Balaban Publishers. Symbiosis. Paper presented at the "Conference on the Present and Potential Uses of Parasitic and Symbiotic Plant

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Microorganisms," April 14-17, 1986, Paris. 1986. v. 2 (1/3). p. 217-221. Includes references. (NAL Call No.: DNAL QH548.S9).

0425

Factors affecting discharge in a water mold of the Thraustotheca-complex / by Benjamin Glynn Liles, Jr. -.

Liles, Benjamin Glynn, 1938-. 1969. Thesis (Ph.D.)--University of California, Berkeley, 1969. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. iii, 124 leaves : ill. ; 21 cm. Bibliography: leaves 118-122. (NAL Call No.: DISS 70-13,101).

0426

Frequency of rain & hours of leaf wetness influence intensity of pecan scab (*Fusicladium effusum*, Alabama).

Latham, A.J. Auburn, Ala., The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Summer 1982. v. 29 (2). p. 3. ill. (NAL Call No.: 100 AL1H).

0427

Fungicidal control of tomato blackmold under rainy conditions.

CAGRA. Miyao, E.M. Hall, D.H.; Somerville, P.; Blaker, N. Berkeley, Calif. : The Station. California agriculture - California Agricultural Experiment Station. July/Aug 1986. v. 40 (7/8). p. 7-8. ill. (NAL Call No.: DNAL 100 C12CAG).

0428

Fungistatic activity of water-soluble fluorescent pigments of fluorescent pseudomonads (*Pseudomonas fluorescens*, fungistatic activity towards phytopathogens).

Misaghi, I.J. Stowell, L.J.; Grogan, R.G.; Spearman, L.C. St. Paul, Minn., American Phytopathological Society. Phytopathology. Jan 1982. v. 72 (1). p. 33-36. Includes 15 ref. (NAL Call No.: 464.8 P56).

0429

Fusarium patch (Pink snow mold).

Vargas, J. M. Jr. Kelly, K. J. & Turf tips. Document available from: Michigan State University, Bulletin Office, P.O.Box 231, East Lansing, Michigan 48824 1981. Discusses symptoms; occurrence; cultural management; and chemical management. 1 sheet : ill. (NAL Call No.: Document available from source.). (NAL Call No.: EB E-1543).

0430

Impact of formulation and rainfall on the protective action of fungicides against apple scab, 1982 (*Venturia inaequalis* infecting *Malus sylvestris*).

Szkolnik, M.FNETD. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 155-156. (NAL Call No.: 464.9 AM31R).

0431

Impact of root infection by *Phytophthora cinnamomi* on the water relations of two *Eucalyptus* species that differ in susceptibility (*Eucalyptus sieberi*, a susceptible species, and *eucalyptus maculata*, a field resistant species).

Dawson, P. Weste, G. St. Paul, Minn. : American Phytopathological Society. Phytopathology. 1984. v. 74 (4). p. 486-490. ill. Includes references. (NAL Call No.: 464.8 P56).

0432

Influence of acidity level in simulated rain on disease progress and sporangial germination, infection efficiency, lesion expansion, and sporulation in the potato late blight system.

PHYTAJ. Martin, S.B. Campbell, C.L.; Bruck, R.I. St. Paul, Minn. : American Phytopathological Society. Phytopathology. June 1987. v. 77 (6). p. 969-974. Includes references. (NAL Call No.: DNAL 464.8 P56).

0433

Influence of irrigation method on severity of selected fungal leaf spots of foliage plants.

Chase, A.R. St. Paul, American Phytopathological Society. Plant disease. Aug 1982. v. 66 (8). p. 673-674. 7 ref. (NAL Call No.: 1.9 P69P).

0434

Influence of matric and osmotic water potentials and soil pH on the activity of giant vampyrellid amoebae.

PHYTAJ. Homma, Y. Cook, R.J. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Feb 1985. v. 75 (2). p. 243-246. ill. Includes 12 references. (NAL Call No.: DNAL 464.8 P56).

0435

Influence of simulated acidic rain on *Phytophthora cinnamomi* and *Phytophthora* root rot of blue lupine.

PHYTA. Shafer, S.R. Bruck, R.I.; Heagle, A.S. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Sept 1985. v. 75 (9).

p. 996-1003. Includes 52 references. (NAL Call No.: DNAL 464.8 P56).

0436

Influence of soil water matric potential on the development of *Phytophthora* root and crown rots of Mahaleb cherry.

PHYTAJ. Wilcox, W.F. Mircetich, S.M. St. Paul, Minn. : American Phytopathological Society. Phytopathology. June 1985. v. 75 (6). p. 648-653. ill. Includes 25 references. (NAL Call No.: DNAL 464.8 P56).

0437

Influence of soil water potential on performance of soybean seeds infected by *Phomopsis* sp.

PHYTA. Gleason, M.L. Ferriss, R.S. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Nov 1985. v. 75 (11). p. 1236-1241. Includes 38 references. (NAL Call No.: DNAL 464.8 P56).

0438

Influence of soil water status on the epidemiology of tobacco black shank.

PHYTAJ. Ferrin, D.M. Mitchell, D.J. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Nov 1986. v. 76 (11). p. 1213-1217. Includes 20 references. (NAL Call No.: DNAL 464.8 P56).

0439

Influence of temperature and rainfall on the development of tobacco black shank (*Phytophthora parasitica* var. *nicotianae*) on *Nicotiana tabacum*, critical-point model assessment of disease incidence and loss, quantitative relationships between environment (rainfall and air temperature) and disease progression).

Jacobi, W.R. PHYTA. Main, C.E.; Powell, N.T. St. Paul : American Phytopathological Society. Phytopathology. Feb 1983. v. 73 (2). p. 139-143. 11 ref. (NAL Call No.: 464.8 P56).

0440

Influence of temperature and wetness duration on sporulation of *Phytophthora cactorum* on infected strawberry fruit.

PHYTAJ. Grove, G.G. Madden L.V.; Ellis, M.A. St. Paul, Minn. : American Phytopathological Society. Phytopathology. June 1985. v. 75 (6). p. 700-703. Includes 18 references. (NAL Call No.: DNAL 464.8 P56).

0441

Influence of temperature, lesion water potential, and cyclic wet-dry periods on sporulation of *Cercospora arachidicola* on peanut.

PHYTAJ. Alderman, S.C. Beute, M.K. St. Paul, Minn. : American Phytopathological Society. Phytopathology. June 1987. v. 77 (6). p. 960-963. Includes references. (NAL Call No.: DNAL 464.8 P56).

0442

Leaf and root growth of water-stressed Kentucky bluegrass infected by *Ustilago striiformis* or *Urocystis agropyri*.

CRPSAY. Nus, J.L. Hodges, C.F. Madison, Wis. : Crop Science Society of America. Crop science. Jan 1985. v. 25 (1). p. 97-101. ill. Includes 30 references. (NAL Call No.: DNAL 64.8 C883).

0443

Metalaxyl and fenamiphos applied through irrigation water to control black shank/root-knot complex on tobacco.

PLDRA. Csinos, A.S. Johnson, A.W.; Golden, A.M. St. Paul, Minn. : American Phytopathological Society. Plant disease. Mar 1986. v. 70 (3). p. 210-213. Includes 24 references. (NAL Call No.: DNAL 1.9 P69P).

0444

New fungicide and fungicide combinations for gray snow mold suppression on putting greens, 1981 (*Typhula incarnata* on creeping bentgrass, *Agrostis palustris*).

Marion, D.F. FNETD. Badger, P.; Vahue, P. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 192. (NAL Call No.: 464.9 AM31R).

0445

New fungicide evaluations on crucifers, 1979 (Cabbage (*Brassica oleracea* var. *capitata* 'Wisconsin', 'Golden Acre'), cauliflower (*Brassica oleracea* var. *botrytis* 'Snow Ball'), downy mildew; *Peronospora parasitica*).

Abdel-Rahman, M. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 62. (NAL Call No.: 464.9 AM31R).

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0446

New fungicides and fungicide combinations for gray snow mold control on putting greens, 1979 (Bentgrass (*Agrostis palustris*), bluegrass (annual) (*Poa annua*), gray snow mold; *Typhula incarnata*).

Marion, D.F. Vangellow, E.; Yount, E. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 140. (NAL Call No.: 464.9 AM31R).

0447

New methods using simulated rain to study the splash dispersal of plant pathogens.

PHYTAJ. Reynolds, K.M. Bulger, M.A.; Madden, L.V.; Ellis, M.A. St. Paul, Minn. : American Phytopathological Society. *Phytopathology*. June 1987. v. 77 (6). p. 921-926. ill. Includes references. (NAL Call No.: DNAL 464.8 P56).

0448

Occurrence and populations of *Plasmodiophora brassicae* in sediments of irrigation water sources (*Brassica oleracea* var. *capitata*, clubroot of cabbage, farm pond sediments).

Datnoff, L.E. Lacy, G.H.; Fox, J.A. St. Paul, Minn. : American Phytopathological Society. *Plant disease*. Mar 1984. v. 68 (3). p. 200-203. Includes references. (NAL Call No.: 1.9 P69P).

0449

The orchard rot-water connection (Root and crown rots caused by poor soil water drainage and standing water, presence of *Phytophthora* water mold fungi).

Dean, P. Washington, D.C. : The Administration. Agricultural research - U.S. Department of Agriculture, Agricultural Research Service. Feb 1984. v. 32 (6). p. 16. (NAL Call No.: 1.98 AG84).

0450

Oxygen, temperature, and water potential in shallow and deep soils of a citrus grove with blight (*Fusarium solani*).

Nemec, S. (s.l.) : The Society. *Proceedings - Soil and Crop Science Society of Florida*. 1983. v. 42. p. 85-90. ill. Includes references. (NAL Call No.: 56.9 S032).

0451

Palo podrido: model for extensive delignification of wood by *Ganoderma applanatum*.

APMBA. Dill, I. Kraepelin, G. Washington, D.C. : American Society for Microbiology. *Applied and environmental microbiology*. Dec 1986. v. 52

(6). p. 1305-1312. ill. Includes references. (NAL Call No.: DNAL 448.3 AP5).

0452

Photosynthesis, transpiration, and water use efficiency of mature grape leaves infected with *Uncinula necator* (powdery mildew).

Lakso, A.N. Pratt, C.; Pearson, R.C.; Pool, R.M.; Seem, R.C.; Welser, M.J. St. Paul, Minn., American Phytopathological Society. *Phytopathology*. Feb 1982. v. 72 (2). p. 232-236. ill. Includes 15 ref. (NAL Call No.: 464.8 P56).

0453

Pink snow mold on winter cereals and lawn grasses in Alaska.

PLDRA. McBeath, J.H. St. Paul, Minn. : American Phytopathological Society. *Plant disease*. Aug 1985. v. 69 (8). p. 722-723. ill. Includes 10 references. (NAL Call No.: DNAL 1.9 P69P).

0454

Plant disease in an old field ecosystem irrigated with municipal waste water (Waste-water irrigation).

Epstein, L. Ditz, K.; Safir, G.R. Madison, Wis., American Society of Agronomy. *Journal of environmental quality*. Jan/Mar 1982. v. 11 (1). p. 65-68. 25 ref. (NAL Call No.: QH540.J6).

0455

Postharvest treatment with fungicides and heated water for control of blueberry fruit decay, 1980 (Blueberry, highbush (*Vaccinium corymbosum* L., 'Jersey'), *Alternaria* fruit rot; *Alternaria* sp., gray mold rot; *Botrytis cinerea*).

Burton, C.L. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 38. (NAL Call No.: 464.9 AM31R).

0456

Preventative control of gray snow mold, 1982, 1983 and 1984.

FNEDT. Rasmussen-Dykes, C. Brown, W.M. Jr.; Perotti, L.P. s.l. : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1985. v. 40. p. 192. (NAL Call No.: DNAL 464.9 AM31R).

0457

Production of alfalfa in Pennsylvania soils of differing wetness.

AGJ0AT. Alva, A.K. Lanyor, L.E.; Leath, K.T. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1986. v. 78 (3). p. 469-473. Includes references. (NAL Call No.: DNAL 4 AM34P).

0458

Relation of environmental stress duration to Aspergillus flavus invasion and aflatoxin production in preharvest peanuts.

PNTSB. Sanders, T.H. Cole, R.J.; Blankenship, P.D.; Hill, R.A. Raleigh : American Peanut Research and Education Society. Peanut science. July/Dec 1985. v. 12 (2). p. 90-93. Includes references. (NAL Call No.: DNAL SB351.P3P39).

0459

Relation of plant water potential at flowering to subsequent cottonseed infection by Aspergillus flavus.

PHYTAJ. Klich, M.A. St. Paul, Minn. : American Phytopathological Society. Phytopathology. May 1987. v. 77 (5). p. 739-741. Includes references. (NAL Call No.: DNAL 464.8 P56).

0460

Relative resistance of different rootstocks of English walnut to six Phytophthora spp. that causes root and crown rot in orchard trees.

PLDRA. Matheron, M.E. Mircetich, S.M. St. Paul, Minn. : American Phytopathological Society. Plant disease. Dec 1985. v. 69 (12). p. 1039-1041. Includes 14 references. (NAL Call No.: DNAL 1.9 P69P).

0461

Remote sensing implications of water deficit and energy relationships for Ponderosa pine attacked by bark beetles and associated disease organisms / by Frederick Philip Weber. -

Weber, F. P. 1969. Thesis (Ph.D.)--University of Michigan, 1969. Photocopy. Ann Arbor, Mich. : University Microfilms, 1969. 143 leaves ; 21 cm. Bibliography: leaves 139-143. (NAL Call No.: DISS 70-14,676).

0462

Role of environmental stress in the development of Phytophthora root rots (Oxygen deficiency, water stress, salinity, woody and herbaceous plants).

MacDonald, J.D. Urbana, Ill., International Society of Arboriculture. Journal of arboriculture. Aug 1982. v. 8 (8). p. 217-223. ill. 25 ref. (NAL Call No.: SB436.J6).

0463

Saprophytic development of Pythium ultimum in soil as a function of water matric potential and temperature (Pre and post-emergence damping-off and root rot pathogen of crops, saprophytic development in soil).

Lifshitz, R. PHYTA. Hancock, J.G. St. Paul : American Phytopathological Society. Phytopathology. Feb 1983. v. 73 (2). p. 257-261. 16 ref. (NAL Call No.: 464.8 P56).

0464

Snow depth and incidence of a snowmold disease on mountain big sagebrush.

XGTIA. Sturges, D.L. Nelson, D.L. Ogden, Utah : The Station. USDA Forest Service general technical report INT - Intermountain Forest and Range Experiment Station. Paper presented at the "Symposium on the Biology of Artemisia and Chrysothamnus," July 9-13, 1984, Provo, Utah. Mar 1986. (200). p. 215-221. ill., maps. Includes references. (NAL Call No.: DNAL aSD11.A48).

0465

Soil water matric potential requirements for root-hair and cortical infection of Chinese cabbage by Plasmodiophora brassicae (Brassica campestris spp. pekinensis).

Dobson, R. PHYTA. Gabrielson, R.L.; Baker, A.S. St. Paul : American Phytopathological Society. Phytopathology. Dec 1982. v. 72 (12). p. 1598-1600. 13 ref. (NAL Call No.: 464.8 P56).

0466

Some effects of water potential on growth, turgor, and respiration of Phytophthora cryptogea and Fusarium moniliforme.

PHYTAJ. Woods, D.M. Duniway, J.M. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Nov 1986. v. 76 (11). p. 1248-1254. Includes 29 references. (NAL Call No.: DNAL 464.8 P56).

0467

Stalk rot of corn: mechanism of predisposition by an early season water stress (Fusarium moniliforme, Zea mays, maize).

Schneider, R.W. PHYTA. Pendery, W.E. St. Paul : American Phytopathological Society. Phytopathology. June 1983. v. 73 (6). p. 863-871. Includes references. (NAL Call No.: 464.8 P56).

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0468

Stomatal behavior and water relations in sugarbeet leaves infected by *Erysiphe polygoni* (*Beta vulgaris*, powdery mildew).

Gordon, T.R. Duniway, J.M. St. Paul, American Phytopathological Society. *Phytopathology*. July 1982. v. 72 (7). p. 723-726. 18 ref. (NAL Call No.: 464.8 P56).

0469

Suppression of gray snow mold on creeping bentgrass by an isolate of *Typhula phacorrhiza*.

PLDRA. Burpee, L.L. Kaye, L.M.; Goulty, L.G.; Lawton, M.B. St. Paul, Minn. : American Phytopathological Society. *Plant disease*. Jan 1987. v. 71 (1). p. 97-100. ill. Includes references. (NAL Call No.: DNAL 1.9 P69P).

0470

Survival of *Colletotrichum gloeosporioides* f. sp. *aeschynomene* in rice irrigatin water and soil (Used as biocontrol for the weed).

TeBeest, D.O. St. Paul, Minn., American Phytopathological Society. *Plant disease*. June 1982. v. 66 (6). p. 469-472. Includes 17 ref. (NAL Call No.: 1.9 P69P).

0471

Temperature X water potential interactions on growth and sclerotial germination of *Phymatotrichum omnivorum* (Root rot of cotton).

Stapper, M.F. Lyda, S.D.; Jordan, W.R. St. Paul, Minn. : American Phytopathological Society. *Phytopathology*. May 1984. v. 74 (5). p. 509-513. Includes references. (NAL Call No.: 464.8 P56).

0472

Transient changes in hydraulic resistance caused in corn roots by *Fusarium moniliforme*.

PHYTAJ. Schneider, R.W. St. Paul, Minn. : American Phytopathological Society. *Phytopathology*. Oct 1984. v. 74 (10). p. 1230-1233. Includes 19 references. (NAL Call No.: DNAL 464.8 P56).

0473

***Typhula* blight (gray snow mold) (*Typhula incarnata*, Michigan).**

Vargas, J.M. Jr. Kelly, K.J. East Lansing, Mich., The Service. Extension bulletin E - Michigan State University, Cooperative Extension Service. Sept 1981. Sept 1981. (1538). 2 p. ill. (NAL Call No.: 275.29 M58B).

0474

***Typhula*-like snow mold on wheat in Oklahoma.**

PLDRA. Conway, K.E. Williams, E. Jr. St. Paul, Minn. : American Phytopathological Society. *Plant disease*. Feb 1986. v. 70 (2). p. 169-170. Includes 11 references. (NAL Call No.: DNAL 1.9 P69P).

0475

Use of hot-water treatment as a means of controlling *Alternaria* spp. on safflower seeds.

PLDRA. Zazzerini, A. Cappelli, C.; Panattoni, L. St. Paul, Minn. : American Phytopathological Society. *Plant disease*. Apr 1985. v. 69 (4). p. 350-351. Includes 5 references. (NAL Call No.: DNAL 1.9 P69P).

0476

Water relations in cotton plants infected with *Phymatotrichum* (*omnivorum*, root rot, *Gossypium hirsutum*).

Olsen, M.W. PHYTA. Misaghi, I.J.; Goldstein, D.; Hine, R.B. St. Paul : American Phytopathological Society. *Phytopathology*. Feb 1983. v. 73 (2). p. 213-216. 16 ref. (NAL Call No.: 464.8 P56).

0477

Water requirements for sporangium formation by *Phytophthora parasitica* in relation to bioassay in soil.

PLDRA. Ioannou, N. Grogan, R.G. St. Paul, Minn. : American Phytopathological Society. *Plant disease*. Dec 1984. v. 68 (12). p. 1043-1048. Includes 26 references. (NAL Call No.: DNAL 1.9 P69P).

0478

Winter triticale resistance to snow mold.

Chikida, N.N. New York, N.Y. : Allerton Press. Soviet agricultural sciences. Translated from: Vsesoiuznaia akademiia sel'skokhoziaistvennykh nauk, Doklady, p. 25-26. (20 AK1). 1985. (3). p. 39-41. Includes 8 references. (NAL Call No.: DNAL S1.S68).

0479

Yellow rain experts battle over corn mold (*Fusarium moniliforme*, Arizona).

Marshall, E. SCIEA. Washington : American Association for the Advancement of Science. *Science*. Aug 3, 1983. v. 217 (4610). p. 526-529. ill. (NAL Call No.: 470 SCI2).

PLANT DISEASES - BACTERIAL

0480

The association of *Erwinia carotovora* with surface water in northeastern Colorado. I. The presence and population of the bacterium in relation to location, season and water temperature.

APQJA. Jorge, P.E. Harrison, M.D. Orono, Me. : Potato Association of America. American potato journal. Oct 1986. v. 63 (10). p. 517-531. maps. Includes references. (NAL Call No.: DNAL 75.8 P842).

0481

Bacterial soft rot potential in washed potato tubers in relation to temperatures of tubers and water during simulated commercial handling practices (*Erwinia carotovora*, storage injuries).

Bartz, J.A. Kelman, A. Orono, Me. : Potato Association of America. American potato journal. Aug 1984. v. 61 (8,pt.1). p. 485-493. Includes 23 references. (NAL Call No.: 75.8 P842).

0482

Chlorination of irrigation water for control of bacterial soft rot of Iris (*Erwinia chrysanthemi*, *Macronectus onusta*, vector).

Lacy, G.H. Lambe, R.C. Nashville : The Association. Proceedings of SNA Research Conference - annual report - Southern Nurserymen's Association. Aug 1982. Aug 1982. (27th). p. 142-143. (NAL Call No.: SB403.S68).

0483

Control of bacteria and stability of chlorine in cut flower water.

Marousky, F.J. s.l. : The Society. Proceedings of the ... annual meeting of the Florida State Horticulture Society. June 1985. v. 97. p. 261-264. Includes references. (NAL Call No.: DNAL SB319.2.F6F56).

0484

Importance of ribosome purity in ribosomal serology.

PHYTAJ. Bouzar, H. Moore, L.W.; Schaup, H.W. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Dec 1986. v. 76 (12). p. 1323-1325. ill. Includes 12 references. (NAL Call No.: DNAL 464.8 P56).

0485

Influence of simulated acidic rain on bacterial speck of tomato (*Lycopersicon esculentum*, *Pseudomonas tomato*).

Bisessar, S.JEVQAA. Palmer, K.T.; Kuja, A.L.; Linzon, S.N. Madison : American Society of Agronomy. Journal of environmental quality. Jan/Mar 1984. v. 13 (1). p. 18-22. ill. Includes references. (NAL Call No.: QH540.J6).

0486

Inoculation of potato tubers with *Erwinia carotovora* during simulated commercial washing and fluming practices (Bacterial soft rot, condensation and water exposure during storage and handling).

Bartz, J.A. Kelman, A. Orono, Me. : Potato Association of America. American potato journal. Aug 1984. v. 61 (8,pt.1). p. 495-507. ill. Includes 27 references. (NAL Call No.: 75.8 P842).

0487

Long-term storage of plant-pathogenic bacteria in sterile distilled water.

APMBA. Iacobellis, N.S. DeVay, J.E. Washington, D.C. : American Society for Microbiology. Applied and environmental microbiology. Aug 1986. v. 52 (2). p. 388-389. ill. Includes 9 references. (NAL Call No.: DNAL 448.3 AP5).

0488

Metalaxyl and fenamiphos applied through irrigation water to control black shank/root-knot complex on tobacco.

PLDRA. Csinos, A.S. Johnson, A.W.; Golden, A.M. St. Paul, Minn. : American Phytopathological Society. Plant disease. Mar 1986. v. 70 (3). p. 210-213. Includes 24 references. (NAL Call No.: DNAL 1.9 P69P).

0489

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JOARD. Cowling, E.B. Urbana, Ill. : International Society of Arboriculture. Journal of arboriculture. Mar 1987. v. 13 (3). p. 70-77. (NAL Call No.: DNAL SB436.J6).

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Irving, P.M. Miller, J.E. Madison, Wis., American Society of Agronomy. Journal of environmental quality. Oct/Dec 1981. v. 10 (4). p. 473-478. Includes 31 ref. (NAL Call No.: QH540.J6).

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Eaton, Frank M. 1893-. McCallum, Roy D. 1894-; Mayhugh, Miles S. 1906-. Washington : U.S. Dept. of Agriculture, 1941. Cover title. 60 p., 5 p. of plates : ill., maps ; 23 cm. Literature cited: p. 58-59. (NAL Call No.: DNAL 1 Ag84Te no.746).

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JEVQAA. Anderson, R.L. Barrett, M.R. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. Jan/Mar 1985. v. 14 (1). p. 111-114. Includes references. (NAL Call No.: DNAL QH540.J6).

0561

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Comes, R.D. Marquis, L.Y.; Kelley, A.D. Champaign, Ill. : Weed Science Society of America. Weed science. July 1984. v. 32 (4). p. 455-459. ill. Includes 18 references. (NAL Call No.: 79.8 W41).

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Mulchi, C.L. Armbruster, J.A. Madison, Wis., American Society of Agronomy. Journal of environmental quality. Oct/Dec 1981. v. 10 (4). p. 541-547. Includes 21 ref. (NAL Call No.: QH540.J6).

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Encapsulation by entrapment (Water-soluble and water-insoluble solid and liquid core materials are entrapped in a matrix of water-insoluble polyhydroxy polymers which are insolubilized from their corresponding water-soluble xanthates in the presence of the core materials, provides protection against decomposition from exposure to ultraviolet light, pest control).

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(AQUACULTURE RELATED)

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ALTERNATIVES STUDY: O'NEILL UNIT, LOWER NIOBRARA DIVISION, PICK-SLOAN MISSOURI BASIN PROGRAM, NEBRASKA (ADDENDUM TO FINAL SUPPLEMENT NO. 2 TO THE FINAL ENVIRONMENTAL IMPACT STATEMENT OF SEPTEMBER 1972).

DEPARTMENT OF THE INTERIOR~ BUREAU OF RECLAMATION. DENVER, COLORADO DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION. (PUR)IMPACTS OF CONSTRUCTION AND OPERATION OF NORDEN DAM TO BE LOCATED ON THE NIOBRARA RIVER IN NEBRASKA ARE CONSIDERED IN THIS ADDENDUM TO THE SECOND SUPPLEMENT TO THE FINAL ENVIRONMENTAL IMPACT STATEMENT CONCERNING PROPOSED DIVERSION STRUCTURES WITHIN THE O'NEILL UNIT. THE O'NEILL UNIT LIES IN THE NIOBRARA RIVER BASIN IN BROWN, CHERRY, AND KEYA PAHA COUNTIES IN THE NORTHCENTRAL PORTION OF THE STATE AND PROVIDES IRRIGATION WATER TO THE 77,000 ACRES OF LAND IN HOLT AND KEYA PAHA COUNTIES. THE FINAL ENVIRONMENTAL STATEMENT WAS ISSUED IN SEPTEMBER 1972, AND THE SECOND SUPPLEMENT WAS ISSUED IN OCTOBER 1981. THE MAJOR IMPACT OF OPERATION OF NORDEN DAM WOULD INVOLVE EROSION OF THE NIOBRARA RIVERBED DUE TO CLEAR WATER RELEASES FROM THE RESERVOIR. THE EROSION WOULD LOWER THE RIVERBED ELEVATION BY AN ESTIMATED 38 FEET OVER A 100-YEAR OPERATING PERIOD AT A POINT 0.5 MILE DOWNSTREAM OF THE NORDEN AFTERBAY DAM. THIS EROSION WOULD DECREASE GRADUALLY DOWNSTREAM OF THIS POINT AND WOULD ATTENUATE COMPLETELY AT A POINT APPROXIMATELY EIGHT MILES DOWNSTREAM OF THE DAM NEAR MEADVILLE BRIDGE. A SECONDARY EFFECT OF THE EROSION OF THE RIVERBED WOULD BE THE DEWATERING OF AN ESTIMATED 110 ACRES OF WETLAND ADJACENT TO THE RIVER DUE TO THE LOWERING OF THE WATER TABLE, WHICH IS CONTROLLED BY THE RIVER'S WATER SURFACE ELEVATION. SOME SMALL WETLANDS WOULD BE TOTALLY DEWATERED. THE RESERVOIR WOULD INUNDATE AN ADDITIONAL 285 ACRES OF EXISTING WETLANDS UPSTREAM OF THE DAM. LOSS OF WETLAND WOULD BE PARTIALLY MITIGATED BY CREATION OF NEW WETLAND WHERE BENCHES WERE FORMED IN THE FORMER RIVERBED AND INTERSECT THE ALTERED WATER TABLE. THE NET LOSS OF WETLAND CANNOT BE DETERMINED, SINCE REPLACEMENT WETLANDS HAVE NOT BEEN DELINEATED DUE TO THE FACT THAT POTENTIAL LOCATIONS WOULD CONTINUALLY CHANGE. (LEG)FEDERAL WATER POLLUTION CONTROL ACT OF 1972 (33 U.S.C. 1251 ET SEQ.). (REF)FOR THE ABSTRACTS OF THE PREVIOUS STATEMENTS SUPPLEMENTING THE FINAL ENVIRONMENTAL IMPACT STATEMENT, SEE 81-0730F, VOLUME 5. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOUR

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BURNHAM CREEK WATERSHED, POLK COUNTY, MINNESOTA.

EAST POLK SOIL AND WATER CONSERVATION DISTRICT. ST. PAUL, MINNESOTA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE FEBRUARY 1982 (EPA: AUGUST 26, 1982). (PUR)IMPLEMENTATION OF A WATERSHED PROTECTION AND FLOOD PREVENTION PLAN WITHIN THE 104,200-ACRE BURNHAM CREEK WATERSHED IN SOUTHWESTERN POLK COUNTY, MINNESOTA IS PROPOSED. THE COUNTY LIES IN THE NORTHWESTERN PORTION OF THE STATE. THE PLAN WOULD INCLUDE LAND TREATMENT, CONSTRUCTION OF A MULTIPLE-PURPOSE FLOODWATER-RETARDING AND WILDLIFE-ENHANCEMENT STRUCTURE, 14.4 MILES OF CHANNEL WORK, AND PRESERVATION OF A 26-ACRE NATURAL AREA. PRIORITY LAND-TREATMENT MEASURES WOULD INVOLVE TREATMENT OF A MINIMUM OF 50 PERCENT OF THE INADEQUATELY PROTECTED CROPLAND WITHIN THE IMMEDIATE AREA OF THE CHANNEL WORK AND IN THE DRAINAGE AREA OF THE MULTIPLE-PURPOSE STRUCTURE. THIS TREATMENT WOULD COVER 5,500 ACRES. THE SECOND PRIORITY LAND-TREATMENT MEASURES WOULD INVOLVE TREATMENT OF A MINIMUM OF 50 PERCENT OF THE INADEQUATELY PROTECTED CROPLAND IN THE REMAINING SECTIONS OF THE WATERSHED. THIS TREATMENT WOULD COVER 3,200 ACRES. LAND TREATMENTS WOULD INCLUDE 5,800 ACRES OF CROP RESIDUE USE, 2,900 ACRES OF

CONSERVATION TILLAGE SYSTEMS, 10 MILES OF FIELD WINDBREAKS, FIVE GRADE-STABILIZATION STRUCTURES, AND FIVE WATER CONTROL STRUCTURES. THESE MEASURES WOULD BE INSTALLED VOLUNTARILY BY LANDOWNERS AND OPERATORS. THE MULTIPLE-PURPOSE STRUCTURE, WHICH WOULD CONSIST OF AN 18-FOOT-HIGH EMBANKMENT DAM AND A 1,210-ACRE-FOOT RESERVOIR, WOULD CONTROL RUNOFF FROM 8.1 SQUARE MILES OF DRAINAGE AREA. ACQUISITION OF THREE ACRES OF LAND ON EASEMENTS AND 338 ACRES OF LAND IN FEE WOULD BE REQUIRED FOR CONSTRUCTION OF THE DAM AND RESERVOIR. A 95-ACRE WILDLIFE POOL WOULD BE ESTABLISHED WITHIN THE RESERVOIR, AND PRAIRIE PLANT SPECIES WOULD BE PLANTED FOR NESTING COVER AND WILDLIFE HABITATION ON THE REMAINING LAND. CHANNEL WORK WOULD INCLUDE MODIFICATION OF 12.5 MILES OF ARTIFICIAL DITCHES OR PREVIOUSLY MODIFIED CHANNEL AND 1.9 MILES OF WELL-DEFINED NATURAL CHANNEL. ESTIMATED COST OF THE FIVE-YEAR PROJECT IS \$3.0 MILLION, AND THE BENEFIT-COST RATIO IS ESTIMATED AT 1.3. (POS)THE PROJECT WOULD REDUCE EROSION ON 8,. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 141 PAGES.

2762

BURNHAM CREEK WATERSHED, POLK COUNTY, MINNESOTA.

EAST POLK SOIL AND WATER CONSERVATION DISTRICT. ST. PAUL, MINNESOTA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE OCTOBER 1981 (EPA: NOVEMBER 3, 1981). (PUR)IMPLEMENTATION OF A WATERSHED PROTECTION AND FLOOD PREVENTION PLAN WITHIN THE 104,200-ACRE BURNHAM CREEK WATERSHED IN SOUTHWESTERN POLK COUNTY, MINNESOTA IS PROPOSED. THE COUNTY LIES IN THE NORTHWESTERN PORTION OF THE STATE. THE PLAN WOULD INCLUDE LAND TREATMENT, CONSTRUCTION OF A MULTIPLE-PURPOSE FLOODWATER-RETARDING AND WILDLIFE-ENHANCEMENT STRUCTURE, AND 14.4 MILES OF CHANNEL WORK. PRIORITY LAND-TREATMENT MEASURES WOULD INVOLVE TREATMENT OF A MINIMUM OF 50 PERCENT OF THE INADEQUATELY PROTECTED CROPLAND WITHIN THE IMMEDIATE AREA OF THE CHANNEL WORK AND IN THE DRAINAGE AREA OF THE MULTIPLE-PURPOSE STRUCTURE. THIS TREATMENT WOULD COVER 5,500 ACRES. THE SECOND PRIORITY LAND-TREATMENT MEASURES WOULD INVOLVE TREATMENT OF A MINIMUM OF 50 PERCENT OF THE INADEQUATELY PROTECTED CROPLAND IN THE REMAINING SECTIONS OF THE WATERSHED. THIS TREATMENT WOULD COVER 3,200 ACRES. LAND TREATMENTS WOULD INCLUDE 5,800 ACRES OF CROP RESIDUE USE, 2,900 ACRES OF CONSERVATION TILLAGE SYSTEMS, 10 MILES OF FIELD WINDBREAKS, FIVE GRADE-STABILIZATION STRUCTURES, AND FIVE WATER CONTROL STRUCTURES. THESE MEASURES WOULD BE INSTALLED VOLUNTARILY BY LANDOWNERS AND OPERATORS. THE MULTIPLE-PURPOSE STRUCTURE, WHICH WOULD CONSIST OF AN 18-FOOT-HIGH EMBANKMENT DAM AND A 1,210-ACRE-FOOT RESERVOIR, WOULD CONTROL RUNOFF FROM 8.1 SQUARE MILES OF DRAINAGE AREA. ACQUISITION OF THREE ACRES OF LAND ON EASEMENTS AND 338 ACRES OF LAND IN FEE WOULD BE REQUIRED FOR CONSTRUCTION OF THE DAM AND RESERVOIR. A 95-ACRE WILDLIFE POOL WOULD BE ESTABLISHED WITHIN THE RESERVOIR, AND PRAIRIE PLANT SPECIES WOULD BE PLANTED FOR NESTING COVER AND WILDLIFE

HABITATION ON THE REMAINING LAND. CHANNEL WORK WOULD INCLUDE MODIFICATION OF 12.5 MILES OF ARTIFICIAL DITCHES OR PREVIOUSLY MODIFIED CHANNEL AND 1.9 MILES OF WELL-DEFINED NATURAL CHANNEL. ESTIMATED COST OF THE FIVE-YEAR PROJECT IS \$3.0 MILLION, AND THE BENEFIT-COST RATIO IS ESTIMATED AT 1.3. (POS)THE PROJECT WOULD REDUCE EROSION ON 8,700 ACRES AND FLOOD DAMAGES ON 19,800 AC. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 102 PAGES.

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CANE CREEK WATERSHED, OKMULGEE AND MUSKOGEE COUNTIES, OKLAHOMA.

DEPARTMENT OF AGRICULTURE~ SOIL CONSERVATION SERVICE. STILLWATER, OKLAHOMA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE JANUARY 1983 (EPA: FEBRUARY 17, 1983).

(PUR)INSTALLATION OF LAND-TREATMENT MEASURES AND CONSTRUCTION OF NINE FLOODWATER-RETARDING STRUCTURES WITHIN THE 159-SQUARE-MILE CANE CREEK WATERSHED IN OKMULGEE AND MUSKOGEE COUNTIES OF EASTCENTRAL OKLAHOMA ARE PROPOSED. MEASURES ALREADY IMPLEMENTED WITHIN THE WATERSHED INCLUDE 19 FLOODWATER-RETARDING STRUCTURES AND LAND-TREATMENT MEASURES TO PROTECT APPROXIMATELY 75 PERCENT OF THE WATERSHED. THE NINE FLOODWATER-RETARDING STRUCTURES TO BE CONSTRUCTED UNDER THE PROPOSED PLAN WOULD BE EARTHFILL EMBANKMENTS WITH DROP INLET SPILLWAYS; THE STRUCTURES WOULD HAVE AN OVERALL SEDIMENT STORAGE CAPACITY OF 2,163 ACRE-Feet AND A DETENTION CAPACITY OF 15,697 ACRE-Feet. ALL STRUCTURES WOULD OPERATE AUTOMATICALLY, TEMPORARILY STORING FLOODWATER IN DETENTION POOLS AND RELEASING THE WATER AT A CONTROLLED RATE THROUGH THE PRINCIPAL SPILLWAY. LAND-TREATMENT MEASURES TO BE IMPLEMENTED IN ASSOCIATION WITH THE PROJECT WOULD INCLUDE CONSERVATION CROPPING SYSTEMS, COVER AND GREEN MANURE CROPS, CROP RESIDUE USE, RANGE SEEDING, PASTURE PLANTING, FARM POND CONSTRUCTION, MAINTENANCE OF GRASS STANDS, CONTOUR FARMING, TERRACING, DIVERSION CONSTRUCTION, AND GRASSED WATERWAYS. WILDLIFE MITIGATION MEASURES WOULD INVOLVE 99 ACRES OF HABITAT PLANTING. BENEFIT-COST RATIO OF THE PROJECT IS ESTIMATED AT 1.9. (POS)PROJECT IMPLEMENTATION WOULD REDUCE AVERAGE ANNUAL FLOODING BY 41 PERCENT, SOIL LOSSES FROM UPLAND AREAS BY 23 PERCENT, SEDIMENTATION WITHIN THE FLOODPLAIN BY 26 PERCENT, AND SEDIMENT YIELD TO THE ARKANSAS RIVER BY 33 PERCENT. THE PROJECT WOULD RESULT IN A NET GAIN OF APPROXIMATELY 3,600 ACRES OF PRIME FARMLAND, INCREASED HABITAT FOR AQUATIC SPECIES, AND IMPROVED WATER QUALITY BELOW FLOODWATER-RETARDING STRUCTURES. WATER IMPOUNDMENTS BEHIND EMBANKMENTS WOULD RECHARGE GROUNDWATER TABLES IN THE IMMEDIATE VICINITY OF THE IMPOUNDMENTS. DETENTION OF OCCASIONAL SPILLS FROM OIL FIELD ACTIVITIES ABOVE FLOODWATER-RETARDING STRUCTURES WOULD DILUTE SPILLED OIL, LESSENING ITS EFFECT ON DOWNSTREAM WATER QU. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209.

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A case study of Moyer Landfill site, Collegeville, Pennsylvania.

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American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-2090). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

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2828

CHEYENNE STATE II WATER DIVERSION, MEDICINE BOW NATIONAL FOREST, ALBANY AND CARBON COUNTIES, WYOMING.

DEPARTMENT OF AGRICULTURE~ FOREST SERVICE. LARAMIE, WYOMING DEPARTMENT OF AGRICULTURE, FOREST SERVICE DECEMBER 1981 (EPA: DECEMBER 16, 1981). (PUR)EXPANSION OF THE WATER COLLECTION AND TRANSMISSION SYSTEM RUN BY THE CHEYENNE BOARD OF PUBLIC UTILITIES (CBPU) IN THE MEDICINE BOW NATIONAL FOREST IN CARBON AND ALBANY COUNTIES, WYOMING IS PROPOSED. THE PROPOSED PROJECT WOULD INVOLVE EXPANSION OF THE COLLECTION AREA IN THE SIERRA MADRE MOUNTAINS SOUTHWEST OF ENCAMPMENT, INCREASING THE CAPACITY OF HOG PARK AND ROB ROY RESERVOIRS, COLLECTION OF WATER OUT OF DOUGLAS CREEK AND LAKE CREEK DRAINAGES NEAR KEYSTONE, AND INSTALLATION OF PIPE FOR COLLECTION AND TRANSMISSION OF WATER. DOUGLAS CREEK WOULD BE DEVELOPED TO ALLOW TRANSMISSION OF 23,200 ACRE-FEET TO THE POLE MOUNTAIN AREA. TRANSMISSION OF UP TO 23,200 ACRE-FEET OF WATER FROM THE WEST SLOPE FACILITIES OF THE LITTLE SNAKE RIVER DRAINAGE, A PORTION OF THE COLORADO RIVER BASIN, ACROSS THE CONTINENTAL DIVIDE INTO THE HOG PARK RESERVOIR WOULD BE REQUIRED. FACILITIES APPURTENANT TO THE PROJECT WOULD INCLUDE UP TO 491,500 FEET OF PIPELINE RANGING IN SIZE FROM 12 INCHES TO 72 INCHES IN DIAMETER, UP TO 33.9 MILES OF NEW ACCESS ROAD, AND SEVERAL DIVERSION STRUCTURES ON THE TRIBUTARIES OF THE LITTLE SNAKE RIVER AND DOUGLAS CREEK. THE SIZES OF ROB ROY AND HOG PARK RESERVOIRS WOULD BE INCREASED TO 800 ACRES AND 695 ACRES RESPECTIVELY. COST OF CONSTRUCTION OF NEEDED FACILITIES IS ESTIMATED AT \$83.3 MILLION. (POS)THE WATER TRANSMISSION

SYSTEM WOULD PROVIDE CHEYENNE WITH 30,500 ACRE-FEET OF WATER, WHILE MAINTAINING ALL INSTREAM FLOWS. MAINTENANCE FLOWS PROVIDED WOULD RESTORE 811 TROUT-HABITAT-UNITS IN THE COLORADO RIVER AND DOUGLAS CREEK. ACCESS ROADS AND RESERVOIR ENLARGEMENT WOULD INCREASE RECREATIONAL OPPORTUNITIES IN THE FOREST. (NEG)RAISING THE LEVELS OF HOG PARK AND ROB ROY RESERVOIRS WOULD INUNDATE 935 ACRES OF LAND, INCLUDING RIPARIAN STREAM HABITAT, AND LOSS OF 408 ANIMAL UNIT MONTHS IN GRAZING CAPACITY WOULD RESULT, AFFECTING WILDLIFE AND LIVESTOCK. SALINITY LEVEL IN THE COLORADO RIVER AT IMPERIAL DAM WOULD INCREASE BY 1.53-1.76 MILLIGRAMS PER LITER. ENLARGEMENT OF T. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 1 No.: 81-0944D).

2829

CHIKASKIA PROJECT, KANSAS-OKLAHOMA.

DEPARTMENT OF THE INTERIOR~ BUREAU OF RECLAMATION. AMARILLO, TEXAS DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION OCTOBER 1981 (EPA: OCTOBER 2, 1981). (PUR)CONSTRUCTION OF A ROLLED EARTHFILL DAM WITH A CONCRETE SPILLWAY ON THE CHIKASKIA RIVER TO CREATE A RESERVOIR THAT WOULD COVER 12,600 ACRES IN SUMNER COUNTY, KANSAS IS PROPOSED. THE DAM, WHICH WOULD BE LOCATED FIVE MILES NORTHEAST OF CALDWELL, WOULD CONSIST OF AN EMBANKMENT WITH A HEIGHT OF 91 FEET AND A LENGTH OF 31,700 FEET; THE CONCRETE-WEIR SPILLWAY WOULD BE 200 FEET WIDE. THE RESERVOIR WOULD CONTAIN 233,000 ACRE-FEET OF WATER AT THE TOP OF THE CONSERVATION POOL, 168,000 ACRE-FEET OF CONSERVATION POOL STORAGE CAPACITY, 65,000 ACRE-FEET FOR SEDIMENT STORAGE, 98,000 ACRE-FEET OF FLOODWATER STORAGE CAPACITY AT THE NORMAL FLOOD CONTROL POOL, AND AN ADDITIONAL 109,000 ACRE-FEET OF FLOODWATER STORAGE CAPACITY AT THE FLOOD SURCHARGE POOL. TOTAL RESERVOIR CAPACITY WOULD BE 440,000 ACRE-FEET. OF THE RESERVOIR'S 100-YEAR FIRM ANNUAL YIELD, APPROXIMATELY 56,400 ACRE-FEET OF WATER WOULD BE AVAILABLE FOR MUNICIPAL AND INDUSTRIAL USE BY WICHITA AND WELLINGTON. THE CITY OF WICHITA WOULD CONSTRUCT A WATER TREATMENT PLANT IMMEDIATELY DOWNSTREAM FROM THE DAM. RIGHT-OF-WAY TO BE ACQUIRED IN FEE TITLE FOR THE DAM AND RESERVOIR WOULD TOTAL 24,620 ACRES; 380 ACRES OUTSIDE THE NORMAL RESERVOIR BOUNDARY WOULD BE ACQUIRED IN FEE TITLE TO REPLACE HUNTING AND FISHING LOSSES AND FOR FISH AND WILDLIFE ENHANCEMENT. A TOTAL OF 3,970 ACRES OF STREAM CORRIDOR ALONG THE RIVER AND BELOW THE RESERVOIR WOULD BE ACQUIRED FOR ENHANCEMENT OF FISH AND WILDLIFE. APPROXIMATELY 1,280 ACRES OF LAND UPSTREAM OF THE RESERVOIR WOULD BE MAINTAINED FOR FISH AND WILDLIFE ENHANCEMENT, AND A TOTAL OF 23 MILES OF THE RIVER WOULD BE PLACED IN PUBLIC OWNERSHIP FOR PRESERVATION AND PUBLIC RECREATION. IMPLEMENTATION OF THE PROJECT WOULD TAKE PLACE OVER A 7-YEAR PERIOD. (POS)THE PROJECT WOULD PROVIDE WATER FOR DOMESTIC AND INDUSTRIAL USES FOR WELLINGTON AND WICHITA, HELPING TO MEET THE NEEDS OF THE TWO CITIES THROUGH THE YEAR 2040. APPROXIMATELY 28,600 ACRES OF LAND WOULD BE PLACED INTO PUBLIC OWNERSHIP. CONSTRUCTIO. USDA

EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 2 VOLUMES. (NAL Cal

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A chloride budget for the Mississippi River, headwaters to mouth (Rates of chemical weathering and erosion in watersheds, natural and anthropogenic sources).

Siegel, D.I. Livemore, D. Minneapolis, Minn. : American Water Resources Association. Water resources bulletin. Aug 1984. v. 20 (4). p. 503-509. maps. Includes 21 references. (NAL Call No.: 292.9 AM34).

2831

Chloroform contamination in part of the alluvial aquifer southwest Louisville, Kentucky.

Davis, R.W.XIWSA. Matthews, E.W. Washington : The Survey. Water supply paper - United States Geological Survey. 1983. 1983. (2202). 25 p. maps. Includes references. (NAL Call No.: 407 G29W).

2832

A chlorophyll a trophic status classification system for South African impoundments (Eutrophication, water management, algal blooms).

Walmsley, R.D.JEVQAA. Madison : American Society of Agronomy. Journal of environmental quality. Jan/Mar 1984. v. 13 (1). p. 97-104. Includes references. (NAL Call No.: QH540.J6).

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Chlorophyll, phosphorus, secchi disk, and trophic state (Lakes, water quality, USA).

Lambou, V.W.WARBA. Hern, S.C.; Taylor, W.D.; Williams, L.R. Minneapolis : American Water Resources Association. Water resources bulletin. Oct 1982. v. 18 (5). p. 807-813. 111. 1 p. ref. (NAL Call No.: 292.9 AM34).

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Chromosomal aberrations in onion (Allium cepa) induced by water chlorination by-products.

BECTA. Al-Sabti, K. Kurelec, B. New York, N.Y. : Springer-Verlag. Bulletin of environmental contamination and toxicology. Jan 1985. v. 34 (1). p. 80-88. 111. Includes references. (NAL Call No.: DNAL RA1270.P35A1).

2835

CLARKS FORK OF THE YELLOWSTONE WILD AND SCENIC RIVER STUDY, PARK COUNTY, WYOMING.

DEPARTMENT OF AGRICULTURE~ FOREST SERVICE. WASHINGTON, D.C DEPARTMENT OF AGRICULTURE, FOREST SERVICE JUNE 1982 (EPA: SEPTEMBER 13, 1982). (PUR)INCLUSION IN THE NATIONAL WILD AND SCENIC RIVERS SYSTEM OF 21.5 MILES OF THE 23-MILE CLARKS FORK OF THE YELLOWSTONE RIVER IN THE SHOSHONE NATIONAL FOREST, PARK COUNTY, WYOMING IS PROPOSED. THE DESIGNATION WOULD COVER A CONTINUOUS SEGMENT OF THE RIVER DOWNSTREAM OF CRANDALL BRIDGE. THE 0.5-MILE SEGMENT UPSTREAM OF THE BRIDGE AND THE 1.0-MILE SEGMENT AT THE DOWNSTREAM END OF CLARKS FORK WOULD NOT BE INCLUDED IN THE NATIONAL SYSTEM. ONE SCENIC EASEMENT WOULD BE PURCHASED TO ALLOW CONTROL OVER A 136-ACRE RANCH WITHIN THE RIVER CORRIDOR. TWO CANYON OVERLOOKS AND TWO TRAILS WOULD BE CONSTRUCTED. (POS)PROTECTION OF THE VALUABLE SCENIC QUALITIES OF THE RIVER WOULD INCREASE THE DIVERSITY OF DISPERSED RECREATION WHILE ENHANCING THE DEVELOPMENTAL POTENTIAL OF ADJACENT AREAS. (NEG)THE EASEMENT WOULD RESTRICT DEVELOPMENT ON PRIVATE LAND, AND PROTECTION OF THE CORRIDOR'S PUBLIC LANDS WOULD RESTRICT USE IN AN AREA ALREADY UNDER WILDERNESS MANAGEMENT LIMITATIONS. THE DESIGNATION WOULD PRECLUDE DEVELOPMENT OF DAM PROJECTS ON THE REACH AND UPSTREAM, REDUCING POTENTIAL ALLOCATIONS OF CLARKS FORK FLOWS FOR AREA WATER SUPPLY, AND ALSO WOULD PRECLUDE THE EXTENSION OF WYOMING HIGHWAY 292 WESTWARD THROUGH THE CANYON. CONSTRUCTION OF TRAILS AND OVERLOOKS WOULD ALTER THE VISUAL CHARACTER IN THE EASTERN QUARTER OF THE STUDY AREA. (LEG)WILD AND SCENIC RIVERS ACT OF 1968, AS AMENDED (16 U.S.C. 1271 ET SEQ.). (REF)FOR THE ABSTRACT OF THE DRAFT ENVIRONMENTAL IMPACT STATEMENT, SEE 79-0849D, VOLUME 3, NUMBER 8. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 121 PAGES. (NAL Call No.: 82-0776F).

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Classification of irrigation water quality (Dissolved salts, sodium, calcium, magnesium, Oklahoma).

Johnson, G. Hanlon, E. Stillwater : The Service. OSU extension facts - Cooperative Extension Service, Oklahoma State University. Oct 1982. Oct 1982. (2401,rev.). 4 p. (NAL Call No.: S544.3.0505).

2837

Classification of stream basins in southeastern Ohio according to extent of surface coal mining /by C.J. Oblinger Childress ; prepared in cooperation with the Ohio Department of Natural Resources, Division of Reclamation. --.

Childress, C. J. Oblinger. Columbus, Ohio : U.S. Geological Survey, Water Resources Division, 1985. Errata sheet inserted. iv, 83 p. : 111., maps ; 28 cm. --. Bibliography: p. 40-41. (NAL Call No.: DNAL GB701.W375)

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no.84-4212).

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Clean Water Act Amendments : non-point source management program : hearings before the Committee on Environment and Public Works, United States Senate, Ninety-eighth Congress, first session, July 19, 1983--Washington, D.C., August 24, 1983--Moorehead, Minn. -.
United States ~ Congress ~ Senate ~ Committee on Environment and Public Works. Washington, (D.C.) U.S. G.P.O. 1983. Distributed to some depository libraries in microfiche ~Item 1045-A, 1045-B (microfiche). v, 672 p. : ill., forms, maps ; 24 cm. --. Includes bibliographical references. (NAL Call No.: KF26.E6 1983b).

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Cleaner water through interagency cooperation (U.S. Environmental Protection Agency, state Cooperative Extension Services, water quality programs, pollution control).
Halbach, T.R. Williams, G. Washington : The Administration. Extension review - United States Department of Agriculture, Science and Education Administration. Spring 1983. v. 54 (2). p. 11. (NAL Call No.: 1 EX892EX).

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Cleaning up the Chesapeake Bay: a public awakening.
Flanigan, F.H. Washington : Office of Public Awareness. EPA Environmental Protection Agency journal. Nov 1984. v. 10 (9). p. 16-17. ill. (NAL Call No.: DNAL TD171.U5).

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Clearcutting northern hardwoods: effects on hydrologic and nutrient ion budgets.
FOSCA. Hornbeck, J.W. Martin, C.W.; Pierce, R.S.; Bormann, F.H.; Likens, G.E.; Eaton, J.S. Bethesda, Md. : Society of American Foresters. Forest science. Sept 1986. v. 32 (3). p. 667-686. ill. Includes references. (NAL Call No.: DNAL 99.8 F7632).

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Altman, R.W. Stillwater, Okla. : The Service. OSU extension facts - Cooperative Extension Service, Oklahoma State University. Dec 1983. Dec 1983. (9000). 2 p. ill. Includes references. (NAL Call No.: S544.3.0505).

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Clinton River study Rochester to mouth, August 22 & 23, 1973. --.
Michigan : Michigan Water Resources Commission, Bureau of Water Management, Dept. of Natural Resources, 1973. Cover title. iii, 47 p. : ill., maps ; 28 cm. (NAL Call No.: DNAL TD224.M5C54).

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Closing the gap in the Clean Water Act (Nonpoint sources of water pollution, agricultural, silvicultural, construction, mining and urban runoff, legislation).
Oberstar, J.L. Chaffee, J.H. Washington, D.C. : American Forestry Association. American forests. June 1984. v. 90 (6). p. 10-11, 54-55, 62. ill. (NAL Call No.: 99.8 F762).

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Clostridium perfringens as an indicator of stream water quality / Roger S. Fujioka, Lyle Shizumura ; prepared for United States Department of the Interior. -.
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Coal-ash effects on fuelwood production and runoff water quality (Casuarina cunninghamiana, Australian pine).

Riekerk, H. Washington, D.C. : Society of American Foresters. Southern journal of applied forestry. May 1984. v. 8 (2). p. 99-102. ill. Includes references. (NAL Call No.: SD1.S63).

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Collection of trace fluoride and hydrofluoric acid from aqueous samples by calcium hydroxyapatite (Water pollution).

Abe, S. Sawane, T.; Sekiguchi, K.; Matsuo, T. New York, N.Y., Gordon and Breach Science Publishers. International journal of environmental analytical chemistry. 1982. v. 11 (2). p. 87-96. 12 ref. (NAL Call No.: QH540.I52).

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Whittig, L.D. Davis : University of California, Davis?, 1981? . A Conference on biosalinity : the problem of salinity in agriculture : a joint conference of Egyptian, Israeli and American scientists, Univ. of California, Davis, September 1-4, 1981 / organized and. p. 14-20. (NAL Call No.: DNAL S619.S24C6).

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2853

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Johnson, E. R. Peck, E. L.; Keefer, Thomas N. Fairfax, VA : Hydrex Corporation, 1982. Conservation and pollution CP-G2-O4382.~ "Prepared for National Aeronautics and Space Administration, Goddard Space Flight Center."~ "October 31, 1982."~ "AgRISTARS"--cover.~ Logos of U.S. government agencies on cover.~ "Technical report"--cover. 1 v. (various pagings) : ill. ; 28 cm. Bibliography: p. 88-90. (NAL Call No.: DNAL TC409.J6).

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Young, C.E. New York : Academic Press, 1981. Municipal wastewater in agriculture / edited by Frank M. D'Itri, Jorge Aguirre Martinez, Mauricio Athie Lambarri. p. 427-452. Includes references. (NAL Call No.: TD760.I57 1980).

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Rader, J.I. Celesk, E.M.; Peeler, J.T.; Mahaffey, K.R. Columbia, Mo., The Conference. Trace substances in environmental health; proceedings of University of Missouri's ... annual conference. 1981. v. 15. p. 131-143. Includes 32 ref. (NAL Call No.: RA422.C65).

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Comparative water chemistry of four lakes in Rocky Mountain National Park (Sensitivity to acidic deposition, Colorado).

Baron, J. Minneapolis, Minn. : American Water Resources Association. Water resources bulletin. Dec 1983. v. 19 (6). p. 897-902. maps. Includes references. (NAL Call No.: 292.9 AM34).

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Comparison of groundwater and surface water for patterns and levels of contamination by toxic substances (New Jersey).

Page, G.W. Washington, D.C., American Chemical Society. Environmental science & technology. Dec 1981. v. 15 (12). p. 1475-1481. map. 30 ref. (NAL Call No.: TD420.A1E5).

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Connor, M.S. Washington, D.C. : American Chemical Society. Environmental science & technology. Aug 1984. v. 18 (8). p. 628-631. ill. Includes 34 references. (NAL Call No.: TD420.A1E5).

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Computation of dissolved gas concentrations in water as functions of temperature, salinity, and pressure / John Colt. --.

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Bibliography: p. 110-111. (NAL Call No.: DNAL GB855.C64).

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Computerized analysis of operation and maintenance requirements for small flow wastewater treatment systems.

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Computerized scheme for chemical classification of natural waters and soil extracts.

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Concentration and fractionation of hydrophobic organic acid constituents from natural waters by liquid chromatography / by E.M. Thurman and R.L. Malcolm. --.

Thurman, E. M. (Earl M.). Malcolm, R. L. Washington, D.C. U.S. G.P.O. 1979. iii, 16 p. : ill. ; 23 cm. --. Bibliography: p. 15-16. (NAL Call No.: 407 G29W no.1817-G).

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2881

CONEJOS WILD AND SCENIC RIVER STUDY, CONEJOS COUNTY, COLORADO.

DEPARTMENT OF AGRICULTURE~ FOREST SERVICE. WASHINGTON, D.C DEPARTMENT OF AGRICULTURE, FOREST SERVICE JUNE 1982 (EPA: SEPTEMBER 22, 1982). (PUR)INCLUSION WITHIN THE NATIONAL WILD AND SCENIC RIVERS SYSTEM IS PROPOSED FOR PORTIONS OF THE CONEJOS RIVER IN THE RIO GRANDE NATIONAL FOREST, CONEJOS COUNTY, COLORADO. DESIGNATION WOULD INCLUDE 25.6 MILES OF CONEJOS RIVER CORRIDOR, COVERING 8,192 ACRES, AS WILD RIVER AND 13.2 MILES OF RIVER CORRIDOR, COVERING 4,224 ACRES, AS RECREATIONAL RIVER. THE STUDY AREA ENCOMPASSES THE THREE FORKS OF THE RIVER FROM THEIR SOURCE TO THEIR CONFLUENCE. OBLITERATION OF A CAMPGROUND AND RELOCATION OF ITS FACILITIES AND IMPROVEMENT OF THE AREA TRAIL SYSTEM WOULD COST AN ESTIMATED \$1.9 MILLION. MAINTENANCE OF THE RIVER CORRIDOR WOULD COST AN ESTIMATED \$111,200 EACH YEAR. (POS)INCLUSION IN THE NATIONAL SYSTEM WOULD PROTECT THE NATURAL CHARACTER OF THE RIVER CORRIDOR. WATER QUALITY WITHIN AND DOWNSTREAM OF THE STUDY AREA WOULD BE MAINTAINED AT A HIGH LEVEL. (NEG)PROHIBITION OF MINERAL ENTRY, USE OF THE CORRIDOR FOR WATER AND POWER PROJECTS, AND GRAZING ON CORRIDOR LANDS WOULD RESULT. (LEG)WILD AND SCENIC RIVERS ACT OF 1968 (16 U.S.C. 1271 ET SEQ.). (REF)FOR THE ABSTRACT OF THE DRAFT ENVIRONMENTAL IMPACT STATEMENT, SEE 79-0850D, VOLUME 4, NUMBER 8. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O,

ARLINGTON, VA 22209. 109 PAGES. (NAL Call No.: 82-0765F).

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Conference summary and research needs: an environmental perspective (Agricultural Management and Water Quality).

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Spiegel, S.J. MacArthur, D.A. Minneapolis, Minn. (Mississippi River at 3rd Ave., S.E., Minneapolis 55414) : AWRA, c1981. Unified river basin management : proceedings of a symposium held in Gatlinburg, Tenn., May 4-7, 1980 / ed. by R.M. North, L.B. Dworsky, D.J. Allee ; spon. American Water Resources Assn. and Tennessee Valley Authority. p. 416-423. map. 10 ref. (NAL Call No.: TC423.U44).

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S.1. : Connecticut River Basin Coordinating Committee, 1970. Cover title.~ Part of illustrative matter in pocket.~ "June 1970.". 9 v. : ill., maps (some folded) ; 27 cm. (NAL Call No.: DNAL HD1695.C75C65).

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Conservation and reuse of water in the food industries per multi, integrated "closed-loop" processes.

Gallop, R.A. Hydamaka, A.W.; Stephen, A.P. Denver, Colo. : AWWA Research Foundation ; Springfield, Va. : reproduced by NTIS, 1981. Proceedings of the Water Reuse Symposium II : held August 23-28, 1981, Washington, D.C. v.2, p. 839-861. ill. Includes references. (NAL Call No.: TD429.W3 1981).

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Baker, J.L. Chelsea, Mich. : Lewis Publishers, c1985. A Systems approach to conservation tillage / edited by Frank M. D'Itri. p. 217-238. Includes references. (NAL Call No.: DNAL S604.S87).

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Everett, L.G. Hoylman, E.W.; Wilson, L.G.; McMillion, L.G. Worthington : Water Well Journal Pub. Co. Ground water monitoring review. Winter 1984. v. 4 (1). p. 26-32. ill. Includes references. (NAL Call No.: GB1001.G76).

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Burnash, R.J.C. Ferral, R.L. New York, American Society of Civil Engineering. Proceedings - Engineering Foundation Conference on Improved Hydrologic Forecasting, Why and How. 1979 (pub. 1980). 1979 (pub. 1980). p. 303-311. ill. (NAL Call No.: GB845.E53).

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Contamination of an unconfined sand aquifer by waste pulp liquor: a case study (Ground water, Quebec).

Robertson, W.D. Barker, J.F.; LeBeau, Y.; Marcoux, S. Worthington : Water Well Journal Pub. Ground water. Mar/Apr 1984. v. 22 (2). p. 191-197. ill., maps. Includes references. (NAL Call No.: TD403.G7).

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The contribution of drinking water to exposure to toxic substances in Canada.

Hickman, J.R. McBain, D.C.; Armstrong, V.C. Dordrecht : D. Reidel Publishing Company. Environmental monitoring and assessment. 1982. v. 2 (1/2). p. 71-83. ill. 2 p. ref. (NAL Call No.: TD194.E5).

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Katz, P.B. Ripp, J.A.; Martin, D.K. Minneapolis, Minn. (Mississippi River at 3rd Ave., S.E., Minneapolis 55414) : AWRA, c1981. Unified river basin management : proceedings of a symposium held in Gatlinburg, Tenn., May 4-7, 1980 / ed. by R.M. North, L.B. Dworsky, D.J. Allee ; spon. American Water Resources Assn. and Tennessee Valley Authority. p. 535-547. ill., map. (NAL Call No.: TC423.U44).

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Allman, M. Washington, D.C. : The Service. Soil & water conservation news - United States Dept. of Agriculture, Soil Conservation Service. May 1987. v. 8 (2). p. 9. (NAL Call No.: DNAL aS622.S6).

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Garcia-Bengochea, I. Lovell, C.W. Philadelphia : ASTM, c1981. Permeability and groundwater contaminant transport : symposium / ASTM Committee D-18 on Soil & Rock for Engineering Purposes: Amer. Soc. for Testing & Materials, Philadelphia, 17-23 June 1979; T.F. Zimmie, C.O. Riggs, eds. p. 137-150. ill. 24 ref. (NAL Call No.: TD426.P47).

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Criteria for evaluating forestry activities in relation to water quality management.

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DESIGNATION OF PORTIONS OF THE PIEDRA RIVER AND ITS EAST AND MIDDLE FORKS UNDER THE WILD AND SCENIC RIVERS ACT, P.L. 93-621, ARCHULETA, HINSDALE, AND MINERAL COUNTIES, COLORADO. DEPARTMENT OF AGRICULTURE~ FOREST SERVICE. WASHINGTON, D.C DEPARTMENT OF AGRICULTURE, FOREST SERVICE JUNE 1982 (EPA: SEPTEMBER 13, 1982). (PUR)INCLUSION OF 50.9 MILES OF THE PIEDRA RIVER AND ITS EAST AND MIDDLE FORKS, IN

HINSDALE, MINERAL, AND ARCHULETA COUNTIES, COLORADO, WITHIN THE NATIONAL WILD AND SCENIC RIVERS SYSTEM, IS PROPOSED. A 32.5-MILE PORTION WOULD BE CLASSIFIED AS WILD RIVER, 12.9 MILES AS SCENIC RIVER, AND 5.5 MILES AS RECREATIONAL RIVER. PROTECTION OF RIVER VALUES WOULD EXTEND TO APPROXIMATELY 16,300 ACRES OF RIVER ENVIRONMENT. THE PORTION OF THE WILD SEGMENTS LOCATED WITHIN THE WEMINUCHE WILDERNESS WOULD BE UNDER THE JURISDICTION OF THE PROPOSED MANAGEMENT FOR THE WILDERNESS. CONTROLS PREVENTING ENVIRONMENTAL DEGRADATION WOULD BE ACQUIRED THROUGH SCENIC AND CONSERVATION EASEMENTS OVER 1,653 ACRES OF PRIVATE LAND WITHIN THE VISUAL CORRIDOR. TIMBER HARVEST AND MINERAL EXPLORATION IN ALL WILD AND SCENIC SEGMENTS WOULD BE PROHIBITED. WHEN EXISTING RECREATION, RANGE MANAGEMENT, AND OTHER NONTRAIL MANAGEMENT FACILITIES BECOME IRREPARABLE, THEY WOULD NOT BE REPLACED. WATER-USE DEVELOPMENTS NOW CONSTRUCTED WOULD BE MAINTAINED. (POS)CLASSIFICATION WOULD PROTECT THE EXISTING QUALITY OF THE RIVER AND ITS IMMEDIATE ENVIRONMENT. HABITAT OF THE ENDANGERED PEREGRINE FALCON AND OTHER WILDLIFE WOULD BE PRESERVED. (NEG)RIVER DESIGNATION WOULD PREVENT THE DEVELOPMENT OF A PROPOSED IRRIGATION AND HYDROELECTRIC RESERVOIR SYSTEM AND REDUCE TIMBER HARVEST BY 400,000 BOARD FEET PER YEAR. SOME HARASSMENT OF WILDLIFE AND UNAUTHORIZED TAKING OF ARCHAEOLOGICAL ARTIFACTS COULD RESULT FROM INCREASED RECREATIONAL USE OF THE RIVER. (LEG)WILD AND SCENIC RIVERS ACT OF 1968, AS AMENDED (16 U.S.C. 1271 ET SEQ.). (REF)FOR THE ABSTRACT OF THE DRAFT ENVIRONMENTAL IMPACT STATEMENT, SEE 79-0628D, VOLUME 3, NUMBER 6. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 172 PAGES. (NAL Call No.: 82-0766F).

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Detecting iron and sulfur bacteria in wells (Gallionella, Leptothrix, Beggiatoa, Thiobacillus).

Smith, S. Columbus, Ohio : Water Well Journal Publishing Company. Water well journal. Mar 1984. v. 38 (3). p. 58-63. ill. (NAL Call No.: TD201.W34).

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Detention basin concepts for watershed level planning (Control storm water runoff, Pennsylvania).

Smith, K.D. Lakotos, D.F. New York : American Society of Civil Engineers, c1982. Proceedings of the Conference on Stormwater Detention Facilities : planning, design, operation, and maintenance / New England College, Henniker, New Hampshire, August 2-6, 1982 : edited by W. DeGroot. p. 419-427. Includes references. (NAL Call No.: TD665.C65 1982).

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Detergents and associated contaminants in ground water at three public-supply well fields in southwestern Suffolk County, Long Island, New York / by N.M. Perlmutter and A.A. Guerrera. -.

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The determination of acid-reactive sulfide (Sulfur precipitation, waste stabilization and aquatic sediment systems).

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Determination of alkalinity and acidity of water by conductometric acid-base titration.

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Determination of phenoxy acid herbicides in water by electron-capture and microcoulometric gas chromatography / by Donald F. Goerlitz and William L. Lamar. -.

Goerlitz, Donald F. (Donald Francis), 1934-. Lamar, William L.; (William Luther),; 1905-. Washington, D.C. U.S. G.P.O. 1967. "Identification, measurement, and stability of phenoxy acid herbicides in water samples." iii, 21 p. : ill. ; 24 cm. --. Bibliography: p. 21. (NAL Call No.: 407 G29W no.1817-C).

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Ledbetter, J.L. Minneapolis, Minn. (Mississippi River at 3rd Ave., S.E., Minneapolis 55414) : AWRA, c1981. Unified river basin management : proceedings of a symposium held in Gatlinburg,

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Development of innovative flotation-filtration systems for water treatment. B. Dissolved air flotation plants for small communities.
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Development of innovative flotation-filtration systems for water treatment. C. An electroflotation plant for single families and institutions.
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DIAMOND CREEK WATERSHED, CHASE AND MORRIS COUNTIES, KANSAS.

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ESTABLISHMENT AND MANAGEMENT OF NATIVE GRASS AND FORBS ON 113 ACRES, IN ADDITION TO ESTABLISHMENT OF WOODY PLANTS ON 94 ACRES OR RETENTION AND IMPROVEMENT OF EXISTING RIPARIAN WOODLAND HABITAT ON 208 ACRES OR A COMBINATION OF WOODY PLANT ESTABLISHMENT AND IMPROVEMENT OF EXISTING HABITAT. ESTIMATED COST OF THE PROJECT IS \$6.0 MILLION, AND THE B. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 72 PAGES.

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GALESVILLE PROJECT, DOUGLAS COUNTY, OREGON.

DEPARTMENT OF AGRICULTURE~ FOREST SERVICE. MEDFORD, OREGON DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION MARCH 1983 (EPA: MARCH 8, 1983). (PUR)DEVELOPMENT OF A RESERVOIR ON UPPER COW CREEK IN SOUTHERN DOUGLAS COUNTY, OREGON IS PROPOSED TO FULFILL WATER SUPPLY, IRRIGATION, FISHERY ENHANCEMENT, FLOOD CONTROL, RECREATION, AND HYDROELECTRIC GENERATION GOALS IN THE AREA. THE PROJECT, TO BE KNOWN AS THE GALESVILLE PROJECT, WOULD LIE 60 MILES UPSTREAM OF THE CONFLUENCE OF COW CREEK AND THE SOUTH UMPQUA RIVER. CONSTRUCTION OF A 158-FOOT-HIGH EARTH EMBANKMENT WOULD CREATE A 42,225-ACRE-FOOT RESERVOIR. APPROXIMATELY 166,000 CUBIC YARDS OF ROCK WOULD BE EXCAVATED FROM THE LEFT ABUTMENT OF THE DAM, AND 5,175 CUBIC YARDS OF CONCRETE WOULD BE LAID TO CREATE A SPILLWAY WITH A DISCHARGE CAPACITY OF 31,750 CUBIC FEET PER SECOND. STORAGE ALLOCATIONS WOULD INCLUDE 1,800 ACRE-FEET FOR DEAD STORAGE AND SEDIMENT ACCUMULATION, 19,425 ACRE-FEET FOR CONSERVATION STORAGE, AND 21,000 ACRE-FEET FOR JOINT-USE STORAGE. A 1.8-MEGAWATT HYDROELECTRIC POWERHOUSE WOULD BE LOCATED ON THE RIGHT BANK ADJACENT TO THE STILLING BASIN FOR THE DAM OUTLET WORKS; THE BASIN WOULD CONTROL THE

TAILWATER FOR THE TURBINES. WATER WOULD BE SUPPLIED TO TWO 900-KILOWATT FRANCIS TURBINE GENERATING UNITS THROUGH A PIPE THAT WOULD BRANCH OFF FROM THE OUTLET CONDUIT NEAR ITS DOWNSTREAM END. TRANSMISSION LINES ALONG 18 MILES OF COW CREEK ROAD WOULD BE UPGRADED TO ALLOW THEM TO CONDUCT ELECTRICITY AT 34.5 KILOVOLTS FROM THE PROJECT SWITCHYARD TO AN EXISTING SUBSTATION. A 25-ACRE RECREATION AREA WOULD BE DEVELOPED ABOUT 0.5 MILES ABOVE THE DAM ALONG THE NORTH SIDE OF THE RESERVOIR; THE AREA WOULD INCLUDE TWO MILES OF HIKING TRAILS AND PARKING AREAS FOR CARS. FISH CAPTURE AND RELEASE FACILITIES WOULD BE INSTALLED ON THE RIGHT BANK DOWNSTREAM OF THE DAM AND POWERHOUSE. WILDLIFE MITIGATION MEASURES WOULD INCLUDE DEVELOPMENT OF A 200-FOOT-WIDE BUFFER STRIP AROUND THE 8.7-MILE SHORELINE OF THE IMPOUNDMENT. ESTIMATED COST OF THE PROJECT IS \$27.8 MILLION. (POS)OPERATION OF THE RESERVOIR WOULD REGULATE 17 PERCENT OF THE COW CREEK BASIN TO PROVIDE EXTENSIVE FLOOD PROTEC. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 289 PAGES. (NAL Call No

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GALESVILLE PROJECT, DOUGLAS COUNTY, OREGON.

DEPARTMENT OF AGRICULTURE~ FOREST SERVICE. MEDFORD, OREGON DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION JULY 1983 (EPA: JULY 11, 1983). (PUR)DEVELOPMENT OF A RESERVOIR ON UPPER COW CREEK IN SOUTHERN DOUGLAS COUNTY, OREGON IS PROPOSED TO FULFILL WATER SUPPLY, IRRIGATION, FISHERY ENHANCEMENT, FLOOD CONTROL, RECREATION, AND HYDROELECTRIC GENERATION GOALS IN THE AREA. THE PROJECT, TO BE KNOWN AS THE GALESVILLE PROJECT, WOULD LIE 60 MILES UPSTREAM OF THE CONFLUENCE OF COW CREEK AND THE SOUTH UMPQUA RIVER. CONSTRUCTION OF A 158-FOOT-HIGH CONCRETE DAM WOULD CREATE A 42,225-ACRE-FOOT RESERVOIR. APPROXIMATELY 166,000 CUBIC YARDS OF ROCK WOULD BE EXCAVATED FROM THE LEFT ABUTMENT OF THE DAM, AND 5,175 CUBIC YARDS OF CONCRETE WOULD BE LAID TO CREATE A SPILLWAY WITH A DISCHARGE CAPACITY OF 31,750 CUBIC FEET PER SECOND. STORAGE ALLOCATIONS WOULD INCLUDE 1,800 ACRE-FEET FOR DEAD STORAGE AND SEDIMENT ACCUMULATION, 19,425 ACRE-FEET FOR CONSERVATION STORAGE, AND 21,000 ACRE-FEET FOR JOINT-USE STORAGE. A 1.8-MEGAWATT HYDROELECTRIC POWERHOUSE WOULD BE LOCATED ON THE RIGHT BANK ADJACENT TO THE STILLING BASIN FOR THE DAM OUTLET WORKS; THE BASIN WOULD CONTROL THE TAILWATER FOR THE TURBINES. WATER WOULD BE SUPPLIED TO TWO 900-KILOWATT FRANCIS TURBINE GENERATING UNITS THROUGH A PIPE THAT WOULD BRANCH OFF FROM THE OUTLET CONDUIT NEAR ITS DOWNSTREAM END. TRANSMISSION LINES ALONG 18 MILES OF COW CREEK ROAD WOULD BE UPGRADED TO ALLOW THEM TO CONDUCT ELECTRICITY AT 34.5 KILOVOLTS FROM THE PROJECT SWITCHYARD TO AN EXISTING SUBSTATION. A 25-ACRE RECREATION AREA WOULD BE DEVELOPED APPROXIMATELY 0.5 MILES ABOVE THE DAM ALONG THE NORTH SIDE OF THE RESERVOIR; THE AREA WOULD INCLUDE TWO MILES OF HIKING TRAIL AND PARKING AREAS FOR CARS. FISH CAPTURE AND RELEASE FACILITIES WOULD BE INSTALLED ON THE RIGHT BANK DOWNSTREAM OF THE DAM AND POWERHOUSE. WILDLIFE MITIGATION

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MEASURES WOULD INCLUDE DEVELOPMENT OF A 200-FOOT-WIDE BUFFER STRIP AROUND THE 8.7-MILE SHORELINE OF THE IMPOUNDMENT. ESTIMATED COST OF THE PROJECT IS \$27.9 MILLION. (POS)OPERATION OF THE RESERVOIR WOULD REGULATE 17 PERCENT OF THE COW CREEK BASIN TO PROVIDE EXTENSIVE FLOOD PRO. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 2 VOLUMES. (NAL Call No. NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 134 PAGES. (NAL Call No.: 83-0279D).

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Wandle, S. William. Boston : U.S. Geological Survey, 1984. iv, 110 p. : ill., maps ; 28 cm. --. Bibliography: p. 108-110. (NAL Call No.: DNAL GB701.W375 no.84-4282).

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Gazetteer of hydrologic characteristics of streams in Massachusetts Merrimack River basin /by S. William Wandle, Jr., and Richard A. Fontaine ; prepared in cooperation with the Commonwealth of Massachusetts, Department of Environmental Quality Engineering, Division of Water Pollution Control. --.

Wandle, S. William. Fontaine, R. A. Boston, Mass. : U.S. Dept. of the Interior, Geological Survey ; Denver, Colo. : Open-File Services

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General surface- and ground-water quality in a coal-resource area near Durango, southwestern Colorado /by David L. Butler ; prepared in cooperation with the U.S. Bureau of Land Management.

Butler, David L. 1946-. Denver, Colo. : U.S. Dept. of the Interior, Geological Survey : Books and Open-File Reports distributor , 1986. One map folded in pocket. iv, 53 p. : ill., maps ; 28 cm. Bibliography: p. 26. (NAL Call No.: DNAL GB701.W375 no.86-4073).

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Geochemical survey to determine water-quality characteristics of the Big Sioux aquifer in eastern South Dakota /by Norman F. Leibbrand ; prepared in cooperation with the South Dakota Department of Water and Natural Resources. --. Leibbrand, Norman F. Huron, S.D. : U.S. Dept. of Interior, Geological Survey ; Denver, CO : Open-File Services Section, Western Distribution Branch, U.S. Geological Survey distributor , 1985. iv, 20 p. : ill., maps ; 28 cm. --. Bibliography: p. 20. (NAL Call No.: DNAL GB701.W375 no.85-4069).

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Geohydrologic reconnaissance of a ground-water contamination problem in the Argonne Road area near Spokane, Washington /by N.P. Dion ; prepared in cooperation with the State of Washington Department of Ecology.

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Geohydrology and ground-water quality on Shelter Island, Suffolk County, New York, 1983-84 /by Dale L. Simmons ; prepared in cooperation with town of Shelter Island.

Simmons, Dale L. Syosset, N.Y. : U.S. Dept. of the Interior, Geological Survey ; Denver, CO : Open File Services Section, Western Distribution Branch, U.S. Geological Survey, 1986. Shipping list no.: 86-932-P. v, 39 p. : ill., maps ; 28 cm. Bibliography: p. 27-28. (NAL Call No.: DNAL GB701.W375 no.85-4165).

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Geohydrology of the Wellington-alluvial aquifer system and evaluation of possible locations of relief wells to decrease saline ground-water discharge to the Smoky Hill and Solomon Rivers, central Kansas /by J.B. Gillespie and G.D. Hargadine ; prepared in cooperation with the Kansas Water Office. --.

Gillespie, J. B. Hargadine, Gerald D. Lawrence, Kan. : U.S. Geological Survey, Water Resources Division, 1986. vi, 31 p. : ill., maps ; 28 cm. --. Bibliography: p. 30-31. (NAL Call No.: DNAL GB701.W375 no.86-4110).

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Geologic and ground-water reconnaissance of the Loup River drainage basin, Nebraska / by R.T. Sniegocki ; with a section on Chemical quality of the water, by R.H. Langford. -.
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3180

Geologic and hydrologic control of chloride contamination in aquifers at Brunswick, Glynn County, Georgia / by Dean O. Gregg and Everett A. Zimmerman ; prepared in cooperation with the city of Brunswick, Glynn County, and the Georgia Department of Natural Resources, Earth and Water Division.

Gregg, Dean O. Zimmerman, Everett A.; (Everett Alfred),; 1927-. Washington, D.C. U.S. G.P.O. 1974. Four folded maps in pocket. v, 44 p. : ill., map ; 23 cm. --. Bibliography: p. 44. (NAL Call No.: 407 G29W no.2029-D).

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Swenson, Frank A. (Frank Albert). Washington, D.C. U.S. G.P.O. 1957. "Prepared as part of the program of the Dept. of the Interior for development of the Missouri River basin. ~Five folded leaves in pocket ~Includes index. iv, 55 p., (1) leaf of plates : ill., maps ; 23 cm. --. Bibliography: p. 39. (NAL Call No.: 407 G29W no.1418).

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Geology and ground water in Door County, Wisconsin, with emphasis on contamination potential in the Silurian dolomite /by M.G. Sherrill ; prepared in cooperation with the Wisconsin Department of Natural Resources.

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Geology and ground water in the Platte-Republican Rivers watershed and the Little Blue River basin above Angus, Nebraska /by C.R. Johnson ; with a section on Chemical quality of the ground water, by Robert Brennan. --.

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Geology and ground water of the Molalla-Salem Slope area, northern Willamette Valley, Oregon / by E. R. Hampton ; prepared in cooperation with the Oregon State Engineer. -.

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GUAYANES RIVER WATERSHED, YABUCOA, PUERTO RICO.
ESTE SOIL AND WATER CONSERVATION DISTRICT.
WASHINGTON, D.C DEPARTMENT OF AGRICULTURE, SOIL
CONSERVATION SERVICE DECEMBER 1981 (EPA:
FEBRUARY 8, 1982). (PUR)IMPLEMENTATION OF
STRUCTURAL AND LAND-TREATMENT MEASURES WITHIN
THE 31,500-ACRE GUAYANES RIVER WATERSHED IN THE
MUNICIPALITY OF YABUCOA IN SOUTHEASTERN PUERTO
RICO IS PROPOSED TO PROVIDE FLOOD PROTECTION,
WATER SUPPLY, AND SOIL CONSERVATION BENEFITS.
STRUCTURAL MEASURES WOULD INCLUDE TWO
MULTIPLE-PURPOSE DAMS FOR FLOOD PROTECTION AND
STORAGE OF WATER FOR MUNICIPAL AND INDUSTRIAL
USES, A WATER CONTROL STRUCTURE AND AN
ASSOCIATED 11,825-FOOT FLOODWAY, FOUR FLOOD
CHANNELS WITH AN OVERALL LENGTH OF 27,125 FEET,
TWO GRADE STABILIZATION STRUCTURES, 51,765 FEET
OF DIKES, AND REPLACEMENT OR INSTALLATION OF
FOUR BRIDGES. ONE MULTIPLE-PURPOSE DAM, WHICH
WOULD BE LOCATED IN THE GUAYABOTA WARD EAST OF
THE GUAYABOTA PUBLIC SCHOOL AND SOUTH OF ROAD
182, WOULD CONSIST OF A 107-FOOT-HIGH STRUCTURE
CONTAINING 637,052 CUBIC FEET OF COMPACTED
EARTH, ROCK, AND DRAIN FILL. THE DAM WOULD
CREATE A 154-ACRE LAKE FOR WATER AND SEDIMENT
STORAGE AND WOULD EXPAND TO COVER 232 ACRES FOR
FLOODWATER STORAGE. THE OTHER MULTIPLE-PURPOSE
DAM, WHICH WOULD BE LOCATED IN THE UPPER
REACHES OF THE LIMONES RIVER NORTH OF MARTORELL
IN THE JACANA WARD, WOULD CONSIST OF A
110-FOOT-HIGH STRUCTURE CONTAINING 1.1 MILLION
CUBIC YARDS OF COMPACTED EARTH, ROCK, AND DRAIN
FILL. STRUCTURAL MEASURES WOULD BE INSTALLED
DURING THE LAST 9 YEARS OF THE 11-YEAR
INSTALLATION PERIOD. LAND-TREATMENT MEASURES
WOULD INCLUDE BOTH VEGETATIVE MANIPULATION AND
STRUCTURAL MEASURES. ESTIMATED COST OF THE
PROJECT IS \$67.2 MILLION, AND THE BENEFIT-COST
RATIO IS ESTIMATED AT 1.25. (POS)STRUCTURAL
MEASURES WOULD PROVIDE PROTECTION AGAINST
FLOODING FOR LARGE LAND AREAS BELOW THE DAMS.
NUMEROUS FARMING UNITS AND 830 URBAN PROPERTIES
WOULD BENEFIT DIRECTLY FROM FLOOD PROTECTION.
APPROXIMATELY 106-313 ACRES OF LAKE FISHERIES
WOULD BE CREATED. THE TWO MULTIPLE-PURPOSE
STRUCTURES WOULD STORE 6,950 ACRE-FEET OF WATER
FOR MUNICIPAL AND INDUSTRIAL USES.
LAND-TREATMENT MEASURES WOULD COMBINE WITH THE
TWO MULTIPURPOSE STRUCTURES TO REDUCE THE. USDA
EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL
AGRICULTURAL LIBRARY OTHERS ORDER FROM
INFORMATION RESOURCES PRESS, 1700 NORTH MOORE
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HOMESTAKE PHASE II PROJECT, EAGLE COUNTY, COLORADO.

EAGLE COUNTY. LAKEWOOD, COLORADO DEPARTMENT OF AGRICULTURE, FOREST SERVICE JUNE 1982 (EPA: JUNE 4, 1982). (PUR)ISSUANCE OF A PERMIT TO THE CITIES OF AURORA AND COLORADO SPRINGS FOR AN EASEMENT TO CONSTRUCT A WATER DIVERSION SYSTEM WITHIN THE WHITE RIVER NATIONAL FOREST IN EAGLE COUNTY, COLORADO IS PROPOSED. THE SYSTEM WOULD USE FOUR TUNNELS WITH A COMBINED LENGTH OF 56,500 FEET, TWO PARALLEL 3,000-FOOT SECTIONS OF 66-INCH-DIAMETER GRAVITY PIPELINE, FOUR RISER SHAFTS, AND VARIOUS DIVERSION STRUCTURES TO PROVIDE AN AVERAGE ANNUAL YIELD OF 20,783 ACRE-FEET OF WATER. THE FIRST TUNNEL WOULD EXTEND NORTHWARD AND WESTWARD A DISTANCE OF 27,000 FEET FROM THE VICINITY OF THE FANCY CREEK DIVERSION DAM TO A POINT BENEATH CROSS CREEK. THE SECOND TUNNEL WOULD EXTEND NORTHWESTERLY FROM THE RISER SHAFT AT CROSS CREEK TO A POINT BENEATH WEST CROSS CREEK, A DISTANCE OF 3,000 FEET. A THIRD TUNNEL WOULD EXTEND NORTHEASTERLY AND EASTERLY 17,500 FEET TO A POINT BENEATH FALL CREEK. THE FOURTH TUNNEL WOULD EXTEND FROM A POINT ON THE THIRD TUNNEL UNDER NOTCH MOUNTAIN TO A POINT BENEATH EAST CROSS CREEK, A DISTANCE OF 9,000 FEET. A RISER SHAFT, DIVERSION PIPELINE, DIVERSION DAM, GATED DIVERSION STRUCTURE, AND MEASURING PIPELINE WOULD BE BUILT AT THE POINT WHERE EACH TUNNEL TERMINATED BENEATH A CREEK. A 66-INCH GRAVITY PIPELINE WOULD EXTEND 3,000 FEET FROM THE TUNNEL PORTAL AT FANCY CREEK TO A POINT NEAR THE NORTH PORTAL OF THE MISSOURI TUNNEL TO

PROVIDE CAPACITY TO CONVEY THE TOTAL CROSS CREEK TUNNEL FLOW TO THE MISSOURI TUNNEL. THE CROSS CREEK FLOW WOULD INITIALLY BE CONVEYED FROM FANCY CREEK PORTAL TO THE MISSOURI TUNNEL BY THE EXISTING FANCY-FRENCH GRAVITY CONDUIT, BUT, AS ADDITIONAL STREAMS WERE DIVERTED, THE CONDUIT CAPACITY WOULD BE EXCEEDED AND AN ADDITIONAL 66-INCH PARALLEL PIPELINE WOULD BE REQUIRED. A POWER DISTRIBUTION LINE COULD BE REQUIRED ALONG HOMESTAKE CREEK ROAD TO PROVIDE SUPPORT FOR THE SYSTEM. TOTAL CAPITAL COST OF THE PROJECT IS ESTIMATED AT \$115 MILLION, AND ANNUAL OPERATING COST IS ESTIMATED AT \$826,000. (POS)ADDITIONAL WATER MADE AVAILABLE TO THE TWO APPLICANT CITIES WOULD. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 2 VOLUMES. (NAL Call No.: 82-0537D).(NAL Call No.: 83-0380F).

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CITY OF AURORA, COLORADO. LAKEWOOD, COLORADO DEPARTMENT OF AGRICULTURE, FOREST SERVICE MAY 1983 (EPA: MAY 26, 1983). (PUR)ISSUANCE OF A PERMIT TO THE CITIES OF AURORA AND COLORADO SPRINGS FOR AN EASEMENT TO CONSTRUCT A WATER DIVERSION SYSTEM WITHIN THE WHITE RIVER NATIONAL FOREST IN EAGLE COUNTY, COLORADO IS PROPOSED. THE SYSTEM WOULD USE FOUR TUNNELS WITH A COMBINED LENGTH OF 56,500 FEET, TWO PARALLEL 3,000-FOOT SECTIONS OF 66-INCH-DIAMETER GRAVITY PIPELINE, FOUR RISER SHAFTS, AND VARIOUS DIVERSION STRUCTURES TO PROVIDE AN AVERAGE ANNUAL YIELD OF 20,783 ACRE-FEET OF WATER. THE FIRST TUNNEL WOULD EXTEND NORTHWARD AND WESTWARD A DISTANCE OF 27,000 FEET FROM THE VICINITY OF THE FANCY CREEK DIVERSION DAM TO A POINT BENEATH CROSS CREEK. THE SECOND TUNNEL WOULD EXTEND NORTHWESTERLY FROM THE RISER SHAFT AT CROSS CREEK TO A POINT BENEATH WEST CROSS CREEK, A DISTANCE OF 3,000 FEET. A THIRD TUNNEL WOULD EXTEND NORTHEASTERLY AND EASTERLY 17,500 FEET TO A POINT BENEATH FALL CREEK. THE FOURTH TUNNEL WOULD EXTEND FROM A POINT ON THE THIRD TUNNEL UNDER NOTCH MOUNTAIN TO A POINT BENEATH EAST CROSS CREEK, A DISTANCE OF 9,000 FEET. A RISER SHAFT, DIVERSION PIPELINE, DIVERSION DAM, GATED DIVERSION STRUCTURE, AND MEASURING PIPELINE WOULD BE BUILT AT THE POINT WHERE EACH TUNNEL TERMINATED BENEATH A CREEK. A 66-INCH GRAVITY PIPELINE WOULD EXTEND 3,000 FEET FROM THE TUNNEL PORTAL AT FANCY CREEK, TO A POINT NEAR THE NORTH PORTAL OF THE MISSOURI TUNNEL TO PROVIDE CAPACITY TO CONVEY THE TOTAL CROSS CREEK TUNNEL FLOW TO THE MISSOURI TUNNEL. THE CROSS CREEK FLOW WOULD INITIALLY BE CONVEYED FROM FANCY CREEK PORTAL TO THE MISSOURI TUNNEL BY THE EXISTING FANCY-FRENCH GRAVITY CONDUIT, BUT, AS ADDITIONAL STREAMS WERE DIVERTED, THE CONDUIT CAPACITY WOULD BE EXCEEDED AND AN ADDITIONAL 66-INCH PARALLEL PIPELINE WOULD BE REQUIRED. A POWER DISTRIBUTION LINE COULD BE REQUIRED ALONG HOMESTAKE CREEK ROAD TO PROVIDE SUPPORT FOR THE SYSTEM. TOTAL CAPITAL COST OF THE PROJECT IS ESTIMATED AT \$112 MILLION. (POS)ADDITIONAL WATER MADE AVAILABLE TO THE TWO

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APPLICANT CITIES WOULD SUPPORT RAPID GROWTH IN THE AREA, RESULTING FROM. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 2 VOLUMES.

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Benton, W.H. Ward, R.L. Washington, D.C., American Society for Microbiology. Applied and environmental microbiology. Apr 1982. v. 43 (4). p. 861-868. ill. Includes 25 ref. (NAL Call No.: 448.3 AP5).

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Kominek, E.G. Minneapolis, Minn. : American Water Resources Association, c1981. Utilizing scientific information in environmental quality planning : proceedings of symposium held in Las Vegas, Nevada, September 26-27, 1979 / edited by W.J. Grenney. p. 13-25. Includes references. (NAL Call No.: TC401.A5 NO. 81-2).

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3401

INDUSTRIAL WATER SERVICE: YELLOWTAIL (BIGHORN)-BOYSEN RESERVOIRS, WYOMING AND MONTANA.
DEPARTMENT OF THE INTERIOR~ BUREAU OF RECLAMATION. BILLINGS, MONTANA DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION DECEMBER 1982 (EPA: DECEMBER 10, 1982).
(PUR)IMPLEMENTATION OF A PLAN FOR MARKETING WATER FOR INDUSTRIAL PURPOSES FROM BOYSEN AND YELLOWTAIL (BIGHORN LAKE) RESERVOIRS IS PROPOSED TO ALLOW FOR DEVELOPMENT OF COAL RESERVES IN NORTHEASTERN WYOMING AND SOUTHEASTERN MONTANA. THE BOYSEN RESERVOIR LIES EAST OF THE FITZPATRICK AND BRIDGER WILDERNESS AREAS IN WYOMING, WHILE THE BIGHORN LAKE RESERVOIR LIES EAST AND NORTHEAST OF THE NORTH ABSAROKA WILDERNESS AREA AND STRADDLES THE WYOMING/MONTANA STATE LINE. BOTH RESERVOIRS LIE ALONG THE BIGHORN RIVER. THIS DRAFT ENVIRONMENTAL IMPACT STATEMENT ADDRESSES ISSUES INVOLVED IN CIVIL ACTION NO. 1220 FILED AGAINST THE SECRETARY OF THE INTERIOR BY THE ENVIRONMENTAL DEFENSE FUND AND OTHERS. THE ACTION, FILED IN THE NINTH CIRCUIT COURT OF APPEALS, RESULTED IN AN ORDER FOR THE DEPARTMENT OF THE INTERIOR TO PREPARE AN ENVIRONMENTAL IMPACT STATEMENT FOR THE REGIONAL WATER MARKETING PLAN. THE PREFERRED MANAGEMENT SCHEME WOULD INVOLVE PROVISION OF WATER SERVICE CONTRACTS THROUGH THE YEAR 2000 FOR

COAL-RELATED INDUSTRIAL USE IN THE TWO STATES. A COMBINED TOTAL OF 300,000 ACRE-FEET OF WATER FROM THE RESERVOIRS WOULD BE AVAILABLE FOR MARKETING; MORE PRECISELY, 57,000 ACRE-FEET OF WATER WOULD BE AVAILABLE FROM THE BOYSEN RESERVOIR AND 243,000 ACRE-FEET WOULD BE AVAILABLE FROM THE YELLOWTAIL RESERVOIR. EXCEPT FOR THE SMALL AMOUNT USED FOR DOMESTIC PURPOSES, THE WATER TO BE ALLOCATED WOULD BE CONSUMPTIVELY USED IN ENERGY CONVERSION PROCESSES. EACH WATER USE CONTRACT WOULD HAVE A MAXIMUM TERM OF 40 YEARS, ALLOWING THE PURCHASER ENOUGH TIME TO DESIGN, CONSTRUCT, AND OPERATE COAL CONVERSION FACILITIES. THE TOTAL QUANTITY OF WATER TO BE MARKETING WOULD BE RECONSIDERED DURING OR BEFORE THE YEAR 2000. EXTENSION OF INDIVIDUAL WATER SERVICE CONTRACTS WOULD BE CONTINGENT ON THIS REVIEW AND ON THE SPECIFIC OPERATION INVOLVED. NO INDIVIDUAL CONTRACTS WOULD BE FINALIZED UNTIL SITE-SPECIFIC PLANS WERE ANALYZED AND APPROPRIATE ENVIRONMENTAL DOCUMENTS WERE PREPARED. USE OF THE WATER MARKETING CONTRACTS. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209.

3402

INDUSTRIAL WATER SERVICE: YELLOWTAIL (BIGHORN)-BOYSEN RESERVOIRS, WYOMING AND MONTANA.
DEPARTMENT OF THE INTERIOR~ BUREAU OF RECLAMATION. BILLINGS, MONTANA DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION DECEMBER 1982 (EPA: DECEMBER 10, 1982).
(PUR)IMPLEMENTATION OF A PLAN FOR MARKETING WATER FOR INDUSTRIAL PURPOSES FROM BOYSEN AND YELLOWTAIL (BIGHORN LAKE) RESERVOIRS IS PROPOSED TO ALLOW FOR DEVELOPMENT OF COAL RESERVES IN NORTHEASTERN WYOMING AND SOUTHEASTERN MONTANA. THE BOYSEN RESERVOIR LIES EAST OF THE FITZPATRICK AND BRIDGER WILDERNESS AREAS IN WYOMING, WHILE THE BIGHORN LAKE RESERVOIR LIES EAST AND NORTHEAST OF THE NORTH ABSAROKA WILDERNESS AREA AND STRADDLES THE WYOMING/MONTANA STATE LINE. BOTH RESERVOIRS LIE ALONG THE BIGHORN RIVER. THIS DRAFT ENVIRONMENTAL IMPACT STATEMENT ADDRESSES ISSUES INVOLVED IN CIVIL ACTION NO. 1220 FILED AGAINST THE SECRETARY OF THE INTERIOR BY THE ENVIRONMENTAL DEFENSE FUND AND OTHERS. THE ACTION, FILED IN THE NINTH CIRCUIT COURT OF APPEALS, RESULTED IN AN ORDER FOR THE DEPARTMENT OF THE INTERIOR TO PREPARE AN ENVIRONMENTAL IMPACT STATEMENT FOR THE REGIONAL WATER MARKETING PLAN. THE PREFERRED MANAGEMENT SCHEME WOULD INVOLVE PROVISION OF WATER SERVICE CONTRACTS THROUGH THE YEAR 2000 FOR COAL-RELATED INDUSTRIAL USE IN THE TWO STATES. A COMBINED TOTAL OF 300,000 ACRE-FEET OF WATER FROM THE RESERVOIRS WOULD BE AVAILABLE FOR MARKETING; MORE PRECISELY, 57,000 ACRE-FEET OF WATER WOULD BE AVAILABLE FROM THE BOYSEN RESERVOIR AND 243,000 ACRE-FEET WOULD BE AVAILABLE FROM THE YELLOWTAIL RESERVOIR. EXCEPT FOR THE SMALL AMOUNT USED FOR DOMESTIC PURPOSES, THE WATER TO BE ALLOCATED WOULD BE CONSUMPTIVELY USED IN ENERGY CONVERSION PROCESSES. EACH WATER USE CONTRACT WOULD HAVE A MAXIMUM TERM OF 40 YEARS, ALLOWING THE

PURCHASER ENOUGH TIME TO DESIGN, CONSTRUCT, AND OPERATE COAL CONVERSION FACILITIES. THE TOTAL QUANTITY OF WATER TO BE MARKETING WOULD BE RECONSIDERED DURING OR BEFORE THE YEAR 2000. EXTENSION OF INDIVIDUAL WATER SERVICE CONTRACTS WOULD BE CONTINGENT ON THIS REVIEW AND ON THE SPECIFIC OPERATION INVOLVED. NO INDIVIDUAL CONTRACTS WOULD BE FINALIZED UNTIL SITE-SPECIFIC PLANS WERE ANALYZED AND APPROPRIATE ENVIRONMENTAL DOCUMENTS WERE PREPARED. USE OF THE WATER MARKETING CONTRACTS. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209.

3403

The influence of a combined sewage outfall on the chemical and biological quality of Salt Creek, Porter County, Indiana.

Whitman, R.L. Indianapolis, Ind. : The Academy. Proceedings of the Indiana Academy of Science. 1982 (pub.1983). v. 92. p. 275-282. maps. Includes references. (NAL Call No.: 500 IN2).

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Influence of animal waste lagoons on ground-water quality.

Ritter, W.F. Chirnside, A.E.M. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-4573). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

3405

Influence of diluents, media, and membrane filters on detection of injured waterborne coliform bacteria (*Escherichia coli*, *Klebsiella pneumoniae*, *Enterobacter aerogenes*, *Citrobacter freundii*).

McFeters, G.A. Cameron, S.C.; LeChevallier, M.W. Washington, D.C., American Society for Microbiology. Applied and environmental microbiology. Jan 1982. v. 43 (1). p. 97-103. Includes 44 ref. (NAL Call No.: 448.3 AP5).

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The influence of geology on the chemical composition of two Washington rivers.

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JUNIPER CANYON WATERSHED, CROOK COUNTY, OREGON.

CROOK COUNTY COURT. PORTLAND, OREGON DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE OCTOBER 1982 (EPA: DECEMBER 3, 1982). (PUR)IMPLEMENTATION OF A FLOOD CONTROL AND LAND-MANAGEMENT PLAN FOR THE 13,403-ACRE JUNIPER CANYON WATERSHED IN CROOK COUNTY, OREGON IS PROPOSED. THE WATERSHED, WHICH DRAINS AN AREA BETWEEN THE OCHOCO CREEK DRAINAGE AND THE CROOKED RIVER DRAINAGE IN THE NORTHEASTERN PORTION OF THE COUNTY, CONTAINS 11,326 ACRES OF RANGE, 1,250 ACRES OF URBAN AREA, 83 ACRES OF ROADS AND HIGHWAYS, 735 ACRES OF CROPLAND AND PASTURE, AND 9 ACRES OF WATER. THE PROJECT WOULD INVOLVE LAND TREATMENT AND STRUCTURAL AND NONSTRUCTURAL FLOOD PREVENTION MEASURES. THE ONGOING LAND-TREATMENT PROGRAM WOULD BE INCREASED FROM 30 TO 900 STAFF HOURS SPREAD OVER THE TWO-YEAR PROJECT INSTALLATION PERIOD. THIS ACCELERATED TECHNICAL ASSISTANCE PROGRAM WOULD BE USED TO ASSIST LAND USERS TO DEVELOP COORDINATED CONSERVATION PLANS, PROVIDE USERS WITH CONSULTATIVE ASSISTANCE, AND HELP USERS APPLY PRACTICES SUCH AS BRUSH CONTROL, SEEDING, AND FENCING. RANGELAND MANAGEMENT MEASURES TO BE APPLIED TO 8,000 TO 11,300 ACRES WOULD INCLUDE DEFERRED GRAZING, REST ROTATION, AND OTHER GRAZING MANAGEMENT MEASURES. STRUCTURAL FLOOD CONTROL MEASURES WOULD INCLUDE CONSTRUCTION OF TWO LOW-FLOOD TRAINING DIKES WITH A COMBINED LENGTH OF 3,000 FEET AND AN IMPROVED ROCK-LINED FLOOD CONTROL CHANNEL WITH A LENGTH OF 9,700 FEET AND A CAPACITY TO CONTAIN THE 100-YEAR FREQUENCY FLOW THROUGH THE OUTSKIRTS OF PRINEVILLE TO THE CROOKED RIVER. NONSTRUCTURAL MEASURES WOULD INCLUDE FLOODPROOFING OF FIVE HOUSES NEAR HILL ROAD ALONG THE NORTH FORK OF JUNIPER CANYON CREEK, UPSTREAM OF THE CHANNEL INLET. THIS AREA WITHIN THE UNCONTROLLED 100-YEAR FLOODPLAIN WOULD BE RESTRICTED FOR FURTHER DEVELOPMENT BY THE COUNTY FLOODPLAIN ORDINANCE. ESTIMATED COST OF THE PROJECT IS \$2.1 MILLION, AND THE BENEFIT-COST RATIO IS ESTIMATED AT 1.18. (POS)PREVENTION AND REDUCTION OF FLOODING IN PRINEVILLE AND REDUCTION OF DAMAGE DUE TO EROSION AND SEDIMENTATION THROUGHOUT THE WATERSHED WOULD RESULT IN BENEFITS WORTH AN ESTIMATED \$224,000 PER YEAR. THE AMOUNT OF CHEMI. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 89 PAGES. (NAL Call No.: 83-0046

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JUNIPER CANYON WATERSHED, CROOK COUNTY, OREGON.

CROOK COUNTY COURT. PORTLAND, OREGON DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE OCTOBER 1982 (EPA: DECEMBER 3, 1982). (PUR)IMPLEMENTATION OF A FLOOD CONTROL AND LAND-MANAGEMENT PLAN FOR THE 13,403-ACRE JUNIPER CANYON WATERSHED IN CROOK COUNTY, OREGON IS PROPOSED. THE WATERSHED, WHICH DRAINS AN AREA BETWEEN THE OCHOCO CREEK DRAINAGE AND THE CROOKED RIVER DRAINAGE IN THE NORTHEASTERN PORTION OF THE COUNTY, CONTAINS 11,326 ACRES OF RANGE, 1,250 ACRES OF URBAN AREA, 83 ACRES OF ROADS AND HIGHWAYS, 735 ACRES OF CROPLAND AND PASTURE, AND 9 ACRES OF WATER. THE PROJECT WOULD INVOLVE LAND TREATMENT AND STRUCTURAL AND NONSTRUCTURAL FLOOD PREVENTION MEASURES. THE ONGOING LAND-TREATMENT PROGRAM WOULD BE INCREASED FROM 30 TO 900 STAFF HOURS SPREAD OVER THE TWO-YEAR PROJECT INSTALLATION PERIOD. THIS ACCELERATED TECHNICAL ASSISTANCE PROGRAM WOULD BE USED TO ASSIST LAND USERS TO DEVELOP COORDINATED CONSERVATION PLANS, PROVIDE USERS WITH CONSULTATIVE ASSISTANCE, AND HELP USERS APPLY PRACTICES SUCH AS BRUSH CONTROL, SEEDING, AND FENCING. RANGELAND MANAGEMENT MEASURES TO BE APPLIED TO 8,000 TO 11,300 ACRES WOULD INCLUDE DEFERRED GRAZING, REST ROTATION, AND OTHER GRAZING MANAGEMENT MEASURES. STRUCTURAL FLOOD CONTROL MEASURES WOULD INCLUDE CONSTRUCTION OF TWO LOW-FLOOD TRAINING DIKES WITH A COMBINED LENGTH OF 3,000 FEET AND AN IMPROVED ROCK-LINED FLOOD CONTROL CHANNEL WITH A LENGTH OF 9,700 FEET AND A CAPACITY TO CONTAIN THE 100-YEAR FREQUENCY FLOW THROUGH THE OUTSKIRTS OF PRINEVILLE TO THE CROOKED RIVER. NONSTRUCTURAL MEASURES WOULD INCLUDE FLOODPROOFING OF FIVE HOUSES NEAR HILL ROAD ALONG THE NORTH FORK OF JUNIPER CANYON CREEK, UPSTREAM OF THE CHANNEL INLET. THIS AREA WITHIN THE UNCONTROLLED 100-YEAR FLOODPLAIN WOULD BE RESTRICTED FOR FURTHER DEVELOPMENT BY THE COUNTY FLOODPLAIN ORDINANCE. ESTIMATED COST OF THE PROJECT IS \$2.1 MILLION, AND THE BENEFIT-COST RATIO IS ESTIMATED AT 1.18. (POS)PREVENTION AND REDUCTION OF FLOODING IN PRINEVILLE AND REDUCTION OF DAMAGE DUE TO EROSION AND SEDIMENTATION THROUGHOUT THE WATERSHED WOULD RESULT IN BENEFITS WORTH AN ESTIMATED \$224,000 PER YEAR. THE AMOUNT OF CHEMI. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 89 PAGES. (NAL Call No.: 83-0046

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Kinetics and extent of mineralization of organic chemicals at trace levels in freshwater and sewage.

Subba-Rao, R.V. Rubin, H.E.; Alexander, M. Washington, D.C., American Society for Microbiology. Applied and environmental microbiology. May 1982. v. 43 (5). p. 1139-1150. Includes 15 ref. (NAL Call No.: 448.3 AP5).

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Kinetics of aqueous base and acid hydrolysis of aldicarb, aldicarb sulfoxide and aldicarb sulfone (Degradation, drinking water).

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Lactose negative Escherichia coli from rangeland streams: source, antibiotic resistance, and colicinogenicity.

WARBA. Rychert, R.C. Stephenson, G.R. Minneapolis, Minn. : American Water Resources Association. Water resources bulletin. Feb 1986. v. 22 (1). p. 39-42. Includes references. (NAL Call No.: DNAL 292.9 AM34).

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Land application of municipal sludge and wastewater.

Follett, R. Hunter. 1981. This publication is made to answer any questions about sludge and/or waste management. Nutrient potentials regulations and application methods of sewage sludge and other wastes are included. Document available from: Distribution Center, Umberger Hall, Kansas State Univ., Manhattan, KS. 66506. 11 p. : ill. (NAL Call No.: C-635).

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Allen, L.H. Jr. Ruddell, J.M.; Ritter, G.J.; Davis, F.E.; Yates, P. New York : American Society of Civil Engineers, c1982. Proceedings of the Specialty Conference on Environmentally Sound Water and Soil Management : Orlando, Fla., July 20-23, 1982 / E.G. Kruse, C.R. Burdick, and Y.A. Yousef, co-editors. p. 67-77. maps. Includes references. (NAL Call No.: TC803.S64 1982).

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Land use, nutrient yield, and eutrophication in the Chowan River Basin / by Nancy J. Craig, Edward J. Kuenzler. -.

Craig, Nancy J. Kuenzler, Edward J. Raleigh Water Resources Research Institute of the University of North Carolina 1983. Research was supported in part by funds provided by the U.S. Dept. of the Interior ... through The University of North Carolina Water Resources Research Institute ; project no. B-127-NC(A) ~Agreement no. 14-34-001-0274 ~"August 1983.". xv, 69 p. : ill., map ; 28 cm. --. Bibliography: p. (59)-69. (NAL Call No.: TD201.N6 no.205). (NAL Call No.: 83-0038D). (NAL Call No.: 83-0038D). (NAL Call No.: 83-0378F).

3460

LARKIN CREEK WATERSHED, LEE AND ST. FRANCIS COUNTIES, ARKANSAS.

LEE COUNTY CONSERVATION DISTRICT. LITTLE ROCK, ARKANSAS DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE NOVEMBER 1982 (EPA: NOVEMBER 23, 1982). (PUR)COMPLETION OF IMPLEMENTATION OF A LAND AND RESOURCES MANAGEMENT PLAN FOR THE 37,863-ACRE LARKIN CREEK WATERSHED OF LEE AND ST. FRANCIS COUNTIES, ARKANSAS IS PROPOSED. THE WATERSHED, WHICH ENCOMPASSES THE SMALL COMMUNITIES OF GILL, FOUR FORKS, HOLUB, AND WESTOR, LIES IN THE LOWER MISSISSIPPI WATER RESOURCE REGION AND THE MISSISSIPPI/ST. FRANCIS WATER RESOURCE SUBREGION. THE RECOMMENDED SCHEME WOULD INCLUDE 50.1 MILES OF CHANNEL WORK ON A MAIN DITCH AND 16 LATERALS, LAND TREATMENT TO REDUCE EROSION AND IMPROVE ON-FARM DRAINAGE SYSTEMS, 54 WATER-CONTROL STRUCTURES, 185 GRADE STABILIZATION STRUCTURES, AND CONSERVATION

EASEMENTS AND WILDLIFE MANAGEMENT PLANS ON 1,035 ACRES OF FOREST AND WETLAND. LAND TREATMENT MEASURES WOULD INCLUDE INSTALLATION OF CROP AND TILLAGE SYSTEMS ON 1,500 ACRES OF EXCESSIVELY ERODING CROPLAND, LAND GRADING ON 220 ACRES TO IMPROVE IRRIGATION AND DRAINAGE, LAND SMOOTHING ON 4,300 ACRES OF CROPLAND, CONSTRUCTION OF 183.5 MILES OF DRAINAGE FIELD DITCHES, AND IMPLEMENTATION OF CROP RESIDUE SYSTEMS, DELAYED SEEDBED PREPARATIONS, AND CROP ROTATION SYSTEMS ON 3,090 ACRES OF FUTURE CROPLAND. CHANNEL WORK WOULD INCLUDE REALIGNMENT, ENLARGEMENT, AND CLEARING AND SNAGGING. APPROXIMATELY 325 CORRUGATED METAL PIPES WOULD BE INSTALLED ALONG THE SIDES OF DITCHES TO PREVENT EROSION, AND ROCK RIPRAP WOULD BE PLACED ON STREAM BANKS AT 10 BRIDGES. SEVENTEEN WOODEN BRIDGES WOULD BE REPLACED. THE MITIGATION PLAN THAT WOULD ACCOMPANY THE PROJECT WOULD INVOLVE OBTAINING EASEMENTS ON 746 ACRES OF SEASONALLY FLOODED WOODLANDS, 91 ACRES OF WOODLAND WITH OR WITHOUT SEASONAL FLOODING, 163 ACRES OF PERMANENTLY FLOODED WETLANDS, AND 30 ACRES OF SEASONALLY FLOODED CROPLAND. ESTIMATED COST OF THE PROJECT IS \$6.8 MILLION. (POS)IMPROVEMENTS IN LAND RESOURCES RESULTING FROM FLOODWATER REDUCTION AND BETTER DRAINAGE CONDITIONS WOULD PRODUCE AVERAGE ANNUAL BENEFITS WORTH \$266,600 AND \$179,400, RESPECTIVELY. FARM INCOME AND INCOME OF RELATED SECTORS WOULD INCREASE, RESULTING IN. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 82 PAGES.

3459

LARKIN CREEK WATERSHED, LEE AND ST. FRANCIS COUNTIES, ARKANSAS.

LEE COUNTY CONSERVATION DISTRICT. LITTLE ROCK, ARKANSAS DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE NOVEMBER 1982 (EPA: NOVEMBER 23, 1982). (PUR)COMPLETION OF IMPLEMENTATION OF A LAND AND RESOURCES MANAGEMENT PLAN FOR THE 37,863-ACRE LARKIN CREEK WATERSHED OF LEE AND ST. FRANCIS COUNTIES, ARKANSAS IS PROPOSED. THE WATERSHED, WHICH ENCOMPASSES THE SMALL COMMUNITIES OF GILL, FOUR FORKS, HOLUB, AND WESTOR, LIES IN THE LOWER MISSISSIPPI WATER RESOURCE REGION AND THE MISSISSIPPI/ST. FRANCIS WATER RESOURCE SUBREGION. THE RECOMMENDED SCHEME WOULD INCLUDE 50.1 MILES OF CHANNEL WORK ON A MAIN DITCH AND 16 LATERALS, LAND TREATMENT TO REDUCE EROSION AND IMPROVE ON-FARM DRAINAGE SYSTEMS, 54 WATER-CONTROL STRUCTURES, 185 GRADE STABILIZATION STRUCTURES, AND CONSERVATION EASEMENTS AND WILDLIFE MANAGEMENT PLANS ON 1,035 ACRES OF FOREST AND WETLAND. LAND TREATMENT MEASURES WOULD INCLUDE INSTALLATION OF CROP AND TILLAGE SYSTEMS ON 1,500 ACRES OF EXCESSIVELY ERODING CROPLAND, LAND GRADING ON 220 ACRES TO IMPROVE IRRIGATION AND DRAINAGE, LAND SMOOTHING ON 4,300 ACRES OF CROPLAND, CONSTRUCTION OF 183.5 MILES OF DRAINAGE FIELD DITCHES, AND IMPLEMENTATION OF CROP RESIDUE SYSTEMS, DELAYED SEEDBED PREPARATIONS, AND CROP ROTATION SYSTEMS ON 3,090 ACRES OF FUTURE CROPLAND. CHANNEL WORK WOULD INCLUDE REALIGNMENT, ENLARGEMENT, AND CLEARING AND

(WATER RESOURCES AND MANAGEMENT)

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3461

LARKIN CREEK WATERSHED, LEE AND ST. FRANCIS COUNTIES, ARKANSAS.

LEE COUNTY CONSERVATION DISTRICT. LITTLE ROCK, ARKANSAS DEPARTMENT OF AGRICULTURE, FOREST SERVICE AND SOIL CONSERVATION SERVICE MAY 1983 (EPA: JUNE 2, 1983). (PUR)COMPLETION OF IMPLEMENTATION OF A LAND AND RESOURCES MANAGEMENT PLAN FOR THE 37,863-ACRE LARKIN CREEK WATERSHED OF LEE AND ST. FRANCIS COUNTIES, ARKANSAS IS PROPOSED. THE WATERSHED, WHICH ENCOMPASSES THE SMALL COMMUNITIES OF GILL, FOUR FORKS, HOLUB, AND WESTOR, LIES IN THE LOWER MISSISSIPPI WATER RESOURCE REGION AND THE MISSISSIPPI/ST. FRANCIS WATER RESOURCE SUBREGION. THE RECOMMENDED SCHEME WOULD INCLUDE 50.1 MILES OF CHANNEL WORK ON A MAIN DITCH AND 16 LATERALS, LAND TREATMENT TO REDUCE EROSION AND IMPROVE ON-FARM DRAINAGE SYSTEMS, 54 WATER-CONTROL STRUCTURES, 185 GRADE-STABILIZATION STRUCTURES, AND CONSERVATION EASEMENTS AND WILDLIFE MANAGEMENT PLANS ON 1,035 ACRES OF FOREST AND WETLAND. LAND TREATMENT MEASURES WOULD INCLUDE INSTALLATION OF CROP AND TILLAGE SYSTEMS ON 1,500 ACRES OF EXCESSIVELY ERODING CROPLAND, LAND GRADING ON 220 ACRES TO IMPROVE IRRIGATION AND DRAINAGE, LAND SMOOTHING ON 4,300 ACRES OF CROPLAND, CONSTRUCTION OF 183.5 MILES OF DRAINAGE FIELD DITCHES, AND IMPLEMENTATION OF CROP RESIDUE SYSTEMS, DELAYED SEEDBED PREPARATIONS, AND CROP ROTATION SYSTEMS ON 3,090 ACRES OF FUTURE CROPLAND. CHANNEL WORK WOULD INCLUDE REALIGNMENT, ENLARGEMENT, AND CLEARING AND SNAGGING. APPROXIMATELY 325 CORRUGATED METAL PIPES WOULD BE INSTALLED ALONG THE SIDES OF DITCHES TO PREVENT EROSION, AND ROCK RIPRAP WOULD BE PLACED ON STREAM BANKS AT 10 BRIDGES. SEVENTEEN WOODEN BRIDGES WOULD BE REPLACED. THE MITIGATION PLAN THAT WOULD ACCOMPANY THE PROJECT WOULD INVOLVE OBTAINING EASEMENTS ON 746 ACRES OF SEASONALLY FLOODED WOODLANDS, 91 ACRES OF WOODLAND WITH OR WITHOUT SEASONAL FLOODING, 163 ACRES OF PERMANENTLY FLOODED WETLANDS, AND 30 ACRES OF SEASONALLY FLOODED CROPLAND. ESTIMATED COST OF THE PROJECT IS \$6.8 MILLION. (POS)IMPROVEMENTS IN LAND

RESOURCES RESULTING FROM FLOODWATER REDUCTION AND BETTER DRAINAGE CONDITIONS WOULD PRODUCE AVERAGE ANNUAL BENEFITS WORTH \$266,600 AND \$179,400, RESPECTIVELY. FARM INCOME AND INCOME OF RELATED SECTORS WOULD INCREASE, RESULTING IN. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 127 PAGES.

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Gustafson, A.ENGED. New York : Springer. Environmental geology. 1983. Presented at the International Symposium, International Association of Hydrogeologists, "Impact of Agricultural Activities on Ground Water Quality and Quantity", Prague, Czechoslovakia, September, 1982. v. 5 (2). p. 65-71. ill. Includes references. (NAL Call No.: QE1.E5).

3464

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EESAD. Tumasonis, C.F. McMartin, D.N.; Bush, B. New York : Academic Press. Ecotoxicology and environmental safety. Apr 1985. v. 9 (2). p. 233-240. ill. Includes references. (NAL Call No.: DNAL QH545.A1E29).

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Limitations of phosphorus water quality criteria.

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Limitations of phosphorus water quality criteria.

JSWCA3. Sharpley, A.N. Smith, S.J.; Menzel, R.G. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. May/June 1985. v. 40 (3). p. 283-284. Includes 6 references. (NAL Call No.: DNAL 56.8 J822).

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Linear programming design of water quality monitoring networks.

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3469

LITTLE WHITESTICK-CRANBERRY CREEKS SUBWATERSHED OF PINEY CREEK WATERSHED, RALEIGH COUNTY, WEST VIRGINIA.

CITY OF BECKLEY, WEST VIRGINIA. MORGANTOWN, WEST VIRGINIA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE APRIL 1983 (EPA: JULY 1, 1983). (PUR)IMPLEMENTATION OF A WATERSHED PROTECTION AND FLOOD PREVENTION PROJECT WITHIN THE 9,295-ACRE LITTLE WHITESTICK-CRANBERRY CREEKS WATERSHED IN RALEIGH COUNTY OF SOUTHERN WEST VIRGINIA IS PROPOSED. THE WATERSHED LIES IN THE EASTERN ALLEGHENY PLATEAU AND MOUNTAINS LAND RESOURCE AREA AND IN THE APPALACHIAN PLATEAU. THE WATERSHED PROTECTION COMPONENT OF THE PROJECT WOULD CONSIST OF ACCELERATED LAND TREATMENT ON 1,157 ACRES OF LAND, WHILE FLOOD PREVENTION FEATURES WOULD CONSIST OF ENLARGEMENT OF 2.1 MILES OF CRANBERRY CREEK AND 1.5 MILES OF LITTLE WHITESTICK CREEK TO CONTAIN THE 10-YEAR-FREQUENCY FLOOD AND EXCAVATION OF A SHORT SECTION OF NEW CHANNEL. STREAM CORRIDOR PRESERVATION WOULD BE ACHIEVED BY DESIGNATING 14.2 ACRES OF HIGH-QUALITY RIPARIAN HABITAT ALONG 1.2 MILES OF LITTLE WHITESTICK CREEK DOWNSTREAM OF PIKEVIEW DRIVE AS A GREENBELT CORRIDOR. LAND-TREATMENT MEASURES WOULD INVOLVE

PROVISION OF TECHNICAL AND FINANCIAL ASSISTANCE TO PREPARE RESOURCE INVENTORIES, DEVELOP CONSERVATION PLANS, AND APPLY CONSERVATION MEASURES TO 125 ACRES OF PASTURE, 40 ACRES OF HAYLAND, 372 ACRES OF FOREST, AND 620 ACRES OF LAND PLANNED FOR CONVERSION TO URBAN LAND. PLANTING, EROSION CONTROL, GRADING, AND BRUSH MANAGEMENT WOULD BE IMPLEMENTED ON SELECTED AREAS. LAND TREATMENT WOULD ALSO INVOLVE DEVELOPMENT OF TEMPORARY DIVERSIONS AND WATERWAYS AND EXCAVATION OF SMALL SEDIMENT BASINS. A TOTAL OF 3,453 PERSON-DAYS OF TECHNICAL ASSISTANCE WOULD BE REQUIRED TO IMPLEMENT THE LAND TREATMENT. MEASURES TAKEN TO MITIGATE ADVERSE EFFECTS OF PROJECT DEVELOPMENTS WOULD INCLUDE CONSTRUCTION OF A CONCRETE WEIR ON A DIVERSION STRUCTURE TO ENHANCE FLOWS IN WHITESTICK CREEK AND ACQUISITION OF EASEMENTS TO MAINTAIN A PORTION OF CRANBERRY CREEK AS AN OVERFLOW CHANNEL. ESTIMATED COSTS OF LAND TREATMENT AND STRUCTURAL DEVELOPMENTS ARE \$517,720 AND \$13.96 MILLION, RESPECTIVELY. (POS)STRUCTURAL FEATURES OF THE PLAN WOULD PROVIDE 100-YEAR FLOOD PROTECTION TO 55 COMMERCIAL AND 4 RESIDENTIAL PROPERTIES ON CRAN. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209.

3470

The littoral zone as a wetland: its contribution to water quality (Aquatic macrophyte beds).

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Guyer, Paul Q. 1980. This discusses what is involved in water quality and how to get an analysis to determine quality. Document available from: Dept. of Ag. Communications, University of Nebraska, Lincoln, NE 6801. 4 p. (NAL Call No.: Not available at NAL.). (NAL Call No.: G79-467).

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Long-term patterns of water quality in a managed watershed in Oregon. 1. Suspended sediment.

WARBA. Sullivan, K. Minneapolis, Minn. : American Water Resources Association. Water resources bulletin. Dec 1985. v. 21 (6). p. 977-987. maps. Includes references. (NAL Call No.: DNAL 292.9 AM34).

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Long-term water-quality characteristics of Charlotte Harbor, Florida /by Thomas H. Fraser ; prepared in cooperation with the Florida Department of Environmental Regulation.

Fraser, Thomas H. Tallahassee, Fla. : U.S. Dept. of the Interior, Geological Survey ; Denver, Colo. : U.S. Geological Survey, Books and Open-File Reports distributor, 1986. "Environmental Quality Laboratory, Inc."~ "Contract number: ER-90422." v. 43 p. : ill., map ; 28 cm. Bibliography: p. 42-43. (NAL Call No.: DNAL GB701.W375 no.86-4180).

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A low-cost, low-maintenance treatment system for acid mine drainage using Sphagnum moss and limestone.

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Low-level radioactive-waste burial at the Palos Forest Preserve, Illinois geology and hydrology of the glacial drift, as related to the migration of tritium /by Julio C. Olimpio. --.

Olimpio, Julio C. Washington, D.C. : U.S. G.P.O., 1984. iv, 34 p. : ill. ; 28 cm. --. Bibliography: p. 34. (NAL Call No.: DNAL 407 G29W no.2226).

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3484

LOWER GUNNISON BASIN UNIT, MONTROSE AND DELTA COUNTIES, COLORADO AND UINTAH BASIN UNIT, DUCHESNE, WASATCH AND UINTAH COUNTIES, UTAH. DEPARTMENT OF AGRICULTURE~ SOIL CONSERVATION SERVICE. PORTLAND, OREGON DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE APRIL 1982 (EPA: MAY 10, 1982). (PUR)IMPLEMENTATION OF WATER-QUALITY IMPROVEMENT PROGRAMS ON 171,000 ACRES OF AGRICULTURAL LAND IN MONTROSE AND DELTA COUNTIES, COLORADO AND 205,000 ACRES OF AGRICULTURAL LAND IN DUCHESNE, WASATCH, AND UINTAH COUNTIES, UTAH IS PROPOSED TO DECREASE THE AMOUNT OF SALT CONTRIBUTED TO THE COLORADO RIVER BY IRRIGATION PROJECTS IN THE TWO AREAS. IN THE LOWER GUNNISON BASIN UNIT IN COLORADO, THE PREFERRED PLAN WOULD INVOLVE LAND LEVELING, MEASURING WATER ONTO THE FIELDS, AND LINING EARTHEN DITCHES AND LATERALS. THE PREFERRED PLAN FOR THE UINTAH BASIN UNIT IN UTAH WOULD INVOLVE IMPROVED MANAGEMENT OF IRRIGATION WATER, INSTALLATION OF WATER-MEASURING DEVICES, IMPROVEMENT OF CONVEYANCE SYSTEMS, MODIFICATION OF THE METHODS OF APPLYING IRRIGATION WATER TO AGRICULTURAL LAND, IMPLEMENTATION OF LAND-LEVELING PRACTICES, AND CONSTRUCTION OF WATER-CONTROL STRUCTURES. COSTS OF PROJECT CONSTRUCTION ACTIVITIES AND TECHNICAL ASSISTANCE FOR THE LOWER GUNNISON AND UINTAH COMPONENTS OF THE PROJECT ARE ESTIMATED AT \$126.2 MILLION AND \$64.5 MILLION, RESPECTIVELY. (POS)THE LOWER GUNNISON PROJECT COULD REDUCE THE ANNUAL SALT LOAD IN THE COLORADO RIVER BY AS MUCH AS 500,000 TONS, REDUCING SALINITY CONCENTRATIONS AT IMPERIAL DAM BY 52 MILLIGRAMS PER LITER. THE IMPROVED IRRIGATION SYSTEMS IN THIS AREA WOULD RESULT IN INCREASED CROP YIELDS AND REDUCED PRODUCTION COSTS. THE UINTAH PROJECT WOULD REDUCE THE ANNUAL SALT LOAD IN THE COLORADO RIVER BY 76,600 TONS AND INCREASE AVERAGE ANNUAL STREAMFLOW BY 20,200 ACRE-Feet. AS A RESULT, THE SALT CONCENTRATION AT IMPERIAL DAM WOULD BE REDUCED BY 10.3 MILLIGRAMS PER LITER, ALLOWING THE WATER QUALITY AT THE DAM TO BE MAINTAINED AT THE PRESENT LEVEL WHILE DEVELOPING AN ADDITIONAL 86,000 ACRE-Feet OF WATER. THE UINTAH PROJECT ALSO WOULD IMPROVE IRRIGATION EFFICIENCY IN THE AREA FROM 34 TO 51 PERCENT. (NEG)TOGETHER, THE PROJECTS WOULD DESTROY UP TO 33,200 ACRES OF WETLAND, AND THE UINTAH PROJECT ALONE WOULD DISTURB 1,900 ACRES OF UPLAND WILDLIFE HABITAT. (LEG)CO. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET

3485

LOWER SILVER CREEK WATERSHED, SANTA CLARA COUNTY, CALIFORNIA.

EVERGREEN RESOURCE CONSERVATION DISTRICT. DAVIS, CALIFORNIA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE MARCH 1983 (EPA: MARCH 7, 1983). (PUR)MODIFICATION OF 4.64 MILES OF CHANNEL AND FLOODPROOFING OF TWO STRUCTURES WITHIN THE 27,700-ACRE LOWER SILVER CREEK WATERSHED IN THE EASTERN PORTION OF SAN JOSE AND IN THE UNINCORPORATED AREA OF SANTA CLARA COUNTY, CALIFORNIA ARE PROPOSED. THE PROJECT WOULD INVOLVE CONSTRUCTION OF 3.77 MILES OF CONCRETE-LINED CHANNEL, MODIFICATION OF 0.87 MILES OF EARTHEN CHANNEL, AND INSTALLATION OF FLOODPROOFING FOR TWO STRUCTURES WITHIN THE UNPROTECTED FLOODPLAIN. BIOLOGICAL AND LANDSCAPE MITIGATION PLANTINGS ON 6.6 ACRES WOULD MITIGATE LOSS OF VEGETATION DUE TO CHANNEL MODIFICATION AND CONSTRUCTION. COST OF PROJECT INSTALLATION IS ESTIMATED AT \$13.9 MILLION, AND THE BENEFIT-COST RATIO IS ESTIMATED AT 1.3. (POS)THE NUMBER OF BUILDINGS DAMAGED BY A 100-YEAR FLOOD WOULD BE REDUCED FROM 1,412 TO 140. PROJECT STRUCTURES WOULD PROVIDE PROTECTION TO 1,194 RESIDENCES, 61 COMMERCIAL ESTABLISHMENTS, 12 INDUSTRIAL BUILDINGS, 1 CHURCH, AND 4 SCHOOL BUILDINGS. THE NUMBER OF VEHICLES DAMAGED BY A 100-YEAR FLOOD WOULD DECLINE FROM 3,400 TO 400. SEDIMENT DEPOSITION ON THE FLOODPLAIN FOR THE 100-YEAR FLOOD WOULD BE REDUCED FROM 20,080 TONS TO 140 TONS. AVERAGE ANNUAL FLOOD DAMAGES WOULD BE REDUCED FROM \$1.8 MILLION TO \$195,400. (NEG)PROJECT MEASURES WOULD REMOVE 4.6 ACRES OF RIPARIAN VEGETATION SUPPORTING 3.3 HABITAT UNITS. ALTHOUGH WETLAND ACREAGE WOULD INCREASE BY 8.9 ACRES, AN OVERALL LOSS OF ONE HABITAT UNIT WOULD RESULT DUE TO THE REPLACEMENT OF NATURAL CHANNEL WITH CONCRETE CHANNEL. SEDIMENT DEPOSITION IN AREAS DOWNSTREAM OF THE PROJECT WOULD INCREASE SLIGHTLY. CONCRETE CHANNELS WOULD DEGRADE STREAM AESTHETICS. (LEG)FEDERAL WATER POLLUTION CONTROL ACT OF 1972 (33 U.S.C. 1251 ET SEQ.) AND WATERSHED PROTECTION AND FLOOD PREVENTION ACT OF 1954 (16 U.S.C. 1001 ET SEQ.). USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 113 PAGES. (NAL Call No.: 83-0213D).178 PAGES. (NAL Call No.: 82-0679D).

3486

LOXAHATCHEE RIVER, WILD AND SCENIC RIVER STUDY, PALM BEACH AND MARTIN COUNTIES, FLORIDA.

DEPARTMENT OF THE INTERIOR~ NATIONAL PARK SERVICE. ATLANTA, GEORGIA DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE JULY 1982 (EPA: AUGUST 13, 1982). (PUR)DESIGNATION OF A 7.5-MILE SEGMENT OF THE LOXAHATCHEE RIVER IN PALM BEACH AND MARTIN COUNTIES OF SOUTHWEST FLORIDA AS A STATE-ADMINISTERED PORTION OF THE NATIONAL WILD AND SCENIC RIVERS SYSTEM IS PROPOSED. THE SEGMENT OF THE NORTHWEST FORK OF THE LOXAHATCHEE RIVER THAT WOULD BE INCLUDED IN THE NATIONAL SYSTEM EXTENDS FROM PALM BEACH COUNTY'S RIVERBEND PARK TO RIVER MILE 6.0 AT THE SOUTHERN BOUNDARY OF JONATHAN DICKINSON STATE PARK. SOME 350 ACRES ALONG THE RIVER

(WATER RESOURCES AND MANAGEMENT)

CORRIDOR BETWEEN INDIANTOWN ROAD AND JONATHAN DICKINSON STATE PARK WOULD BE PROTECTED. THE SEGMENT OF THE RIVER CORRIDOR FROM INDIANTOWN ROAD TO RIVER MILE 6.0 WOULD BE MANAGED BY THE STATE, AND THE PORTION OF THE RIVER WITHIN RIVERBEND PARK WOULD BE MANAGED BY THE COUNTY OF PALM BEACH. MARTIN COUNTY COULD COOPERATE IN MANAGEMENT OF THE RIVER BY ENACTING APPROPRIATE LAND-USE CONTROLS ALONG THE PORTION OF THE RIVER WITHIN ITS JURISDICTION, IF NECESSARY. A COOPERATIVE AGREEMENT WITH WATER-MANAGEMENT AGENCIES WOULD ASSURE ADEQUATE WATER QUALITY FOR THE DESIGNATED PORTION OF THE RIVER. MEASURES REQUIRED TO PROTECT THE RIVER CORRIDOR COULD INCLUDE FREE ACQUISITION OF LAND, PURCHASE OF SCENIC EASEMENTS, ZONING RESTRICTIONS, CONSTRUCTION SETBACK LINES, BUILDING PERMITS, AND OTHER SIMILAR LAND USE CONTROLS. DEVELOPMENT COSTS TO THE STATE AND PALM BEACH COUNTY ARE ESTIMATED TO AMOUNT TO \$61,000 AND \$110,000, RESPECTIVELY. INCREASES IN ANNUAL MAINTENANCE COSTS TO THE STATE AND THE COUNTY ARE ESTIMATED AT \$11,200 AND \$30,000. (POS)INCLUSION OF THE RIVER SEGMENT IN THE NATIONAL SYSTEM WOULD PROVIDE ADDITIONAL PROTECTION FOR THE SCENIC, RECREATIONAL, AND CULTURAL RESOURCES LOCATED WITHIN THE RIVER CORRIDOR. A UNIQUE CYPRESS RIVER/SWAMP COMMUNITY AND ASSOCIATED WILDLIFE AND FISH HABITAT WOULD BE PRESERVED, AND AN INDIAN MOUND NEAR JONATHAN DICKINSON STATE PARK, WHICH HAS BEEN SUBJECT TO EXPLORATION BY AMATEUR ARCHAEOLOGISTS, WOULD BE PROTECTED FROM FURTHER DAMAGE. (NEG)THE DESIGNATION COULD AFFECT WATER RESOURCE PROJE. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209.

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MISSISSIPPI COUNTY SPILLWAY AREA WATERSHED, MISSOURI.

MISSISSIPPI COUNTY CONSOLIDATED DRAINAGE DISTRICT NO. 1. COLUMBIA, MISSOURI DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE JUNE 1983 (EPA: JULY 5, 1983). (PUR)IMPLEMENTATION OF A WATERSHED PROTECTION AND FLOOD PREVENTION PLAN ON THE 100,314-ACRE MISSISSIPPI COUNTY SPILLWAY AREA WATERSHED IN MISSISSIPPI COUNTY, MISSOURI IS PROPOSED. THE PREFERRED PLAN WOULD

(WATER RESOURCES AND MANAGEMENT)

CONSIST OF 38 MILES OF CHANNEL WORK AND INSTALLATION OF 430 GRADE STABILIZATION STRUCTURES. CHANNEL WORK WOULD INVOLVE ENLARGEMENT OF 37 MILES OF EXISTING CHANNEL AND CONSTRUCTION OF ONE MILE OF NEW CHANNEL. ACTIVITIES ALSO WOULD BE UNDERTAKEN TO MAINTAIN FLOWS IN AN ADDITIONAL 60 MILES OF CHANNEL WITHIN THE WATERSHED. WATERSHED LANDOWNERS WOULD COMMIT THEMSELVES TO PRESERVING 1,342 ACRES OF BOTTOMLAND HARDWOODS AND WETLANDS. EIGHT STRUCTURES THAT CARRY STATE OR COUNTY ROADS OVER CHANNELS WOULD BE REPLACED. ESTIMATED COST OF THE PROJECT, WHICH WOULD BE INSTALLED OVER A FIVE-YEAR PERIOD, IS \$3.7 MILLION, AND THE BENEFIT-COST RATIO IS ESTIMATED AT 2.9. (POS)CHANNEL WORK WOULD REDUCE EROSION AND CONSEQUENT SEDIMENTATION WITHIN STREAMS BY 40 PERCENT, IMPROVING THE AQUATIC CONDITION OF THE WATERSHED AND REDUCING AVAILABLE TRANSPORT SITES FOR TOXIC WASTES. COMMITMENTS BY LOCAL PEOPLE WOULD ENSURE THE PRESERVATION OF LARGE AREAS OF BOTTOMLAND HARDWOOD, AND 337 ACRES OF HABITAT WOULD BE CREATED ON CHANNEL BANKS, SPOIL SLOPES, MAINTENANCE ROADS, AND GRADE STABILIZATION STRUCTURES. INSTALLATION OF GRADE STABILIZATION STRUCTURES WOULD CONTROL EROSION IN AREAS WHERE CONCENTRATED FLOW ENTERS CHANNELS. THE PROJECT WOULD INCREASE NET ANNUAL FARM INCOME BY \$630,000 BY REDUCING FLOOD DAMAGE TO CROPS AND RELATED AGRICULTURAL AND NONAGRICULTURAL FACILITIES. DRAINAGE IMPROVEMENTS RESULTING FROM PROJECT ACTIVITIES AND STRUCTURES WOULD INCREASE NET ANNUAL FARM INCOME IN THE WATERSHED BY \$600,000. APPROXIMATELY 250 FARMS WOULD BENEFIT FROM THE PROJECT. (NEG)CHANNEL ENLARGEMENT WOULD DESTROY 40 ACRES OF BOTTOMLAND HARDWOOD AND WETLAND. APPROXIMATELY 1,704 ACRES OF WOODLAND AND WETLAND COULD FACE FUTURE CLEARING PRESSURE FROM NON-PROJECT-RELATED ACTIVITIES. CHANNEL WORK AND STRUCTURE INSTA. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 99 PAGES.

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MISSISSIPPI COUNTY SPILLWAY AREA WATERSHED, MISSOURI.

MISSISSIPPI COUNTY CONSOLIDATED DRAINAGE DISTRICT NO. 1. COLUMBIA, MISSOURI DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE SEPTEMBER 1981 (EPA: SEPTEMBER 28, 1981). (PUR)IMPLEMENTATION OF A WATERSHED PROTECTION AND FLOOD PREVENTION PLAN ON THE 100,314-ACRE MISSISSIPPI COUNTY SPILLWAY AREA WATERSHED IN MISSISSIPPI COUNTY, MISSOURI IS PROPOSED. THE PREFERRED PLAN WOULD CONSIST OF 38 MILES OF CHANNEL WORK AND INSTALLATION OF 430 GRADE STABILIZATION STRUCTURES. CHANNEL WORK WOULD INVOLVE ENLARGEMENT OF 37 MILES OF EXISTING CHANNEL AND CONSTRUCTION OF ONE MILE OF NEW CHANNEL. ACTIVITIES ALSO WOULD BE UNDERTAKEN TO MAINTAIN FLOWS IN AN ADDITIONAL 60 MILES OF CHANNEL WITHIN THE WATERSHED. WATERSHED LANDOWNERS WOULD COMMIT THEMSELVES TO PRESERVING 1,342 ACRES OF BOTTOMLAND HARDWOODS AND WETLANDS. EIGHT STRUCTURES THAT CARRY STATE OR COUNTY ROADS OVER CHANNELS WOULD BE REPLACED. ESTIMATED COST OF THE PROJECT, WHICH

WOULD BE INSTALLED OVER A FIVE-YEAR PERIOD, IS \$3.7 MILLION, AND THE BENEFIT-COST RATIO IS ESTIMATED AT 2.5. (POS)CHANNEL WORK WOULD REDUCE EROSION AND CONSEQUENT SEDIMENTATION WITHIN STREAMS BY 40 PERCENT, IMPROVING THE AQUATIC CONDITION OF THE WATERSHED AND REDUCING AVAILABLE TRANSPORT SITES FOR TOXIC WASTES. COMMITMENTS BY LOCAL PEOPLE WOULD ENSURE THE PRESERVATION OF LARGE AREAS OF BOTTOMLAND HARDWOOD, AND 337 ACRES OF HABITAT WOULD BE CREATED ON CHANNEL BANKS, SPOIL SLOPES, MAINTENANCE ROADS, AND GRADE STABILIZATION STRUCTURES. INSTALLATION OF GRADE STABILIZATION STRUCTURES WOULD CONTROL EROSION IN AREAS WHERE CONCENTRATED FLOW ENTERS CHANNELS. THE PROJECT WOULD INCREASE NET ANNUAL FARM INCOME BY \$520,000 BY REDUCING FLOOD DAMAGE TO CROPS AND RELATED AGRICULTURAL AND NONAGRICULTURAL FACILITIES. DRAINAGE IMPROVEMENTS RESULTING FROM PROJECT ACTIVITIES AND STRUCTURES WOULD INCREASE NET ANNUAL FARM INCOME IN THE WATERSHED BY \$480,000. APPROXIMATELY 250 FARMS WOULD BENEFIT FROM THE PROJECT. (NEG)CHANNEL ENLARGEMENT WOULD DESTROY 40 ACRES OF BOTTOMLAND HARDWOOD AND WETLAND. APPROXIMATELY 1,704 ACRES OF WOODLAND AND WETLAND COULD FACE FUTURE CLEARING PRESSURE FROM NONPROJECT-RELATED ACTIVITIES. CHANNEL WORK AND STRUCTURE INSTAL. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 59 PAG

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WRERAQ. Cosby, B.J. Wright, R.F.; Hornberger, G.M.; Galloway, J.N. Washington, D.C. : American Geophysical Union. Water resources research. Nov 1985. v. 21 (11). p. 1591-1601. Includes references. (NAL Call No.: DNAL 292.8 W295).

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PLANNING FOR STATE LANDS, AND LOCAL COUNTY
FLOODPLAIN ZONING AND OTHER ZONING FOR PRIVATE
LANDS ALONG THE RIVER ARE PROPOSED, IN LIEU OF
INCLUSION IN THE NATIONAL WILD AND SCENIC
RIVERS SYSTEM. NATIONAL FOREST LAND MANAGEMENT
WOULD EMPHASIZE PROTECTION OF RIVER MANAGEMENT
AREA VALUES AND PURSUE LAND EXCHANGE
OPPORTUNITIES THAT WOULD YIELD ADDITIONAL
PROTECTION AND MANAGEMENT EFFICIENCY. ON
PRIVATE LANDS, BOUNDARY COUNTY WOULD PROVIDE
PROTECTION OF RIVER MANAGEMENT AREA VALUES
THROUGH OPPORTUNITIES OFFERED BY CURRENT
COMPREHENSIVE PLANNING, ZONING, AND FLOODPLAIN
ZONING EFFORTS. THE OPTION TO INCLUDE THE MOYIE
RIVER IN ANY FUTURE STATE RIVER SYSTEM, AS
PROPOSED IN THE IDAHO WATER PLAN, WOULD REMAIN
AVAILABLE. (POS)MANAGEMENT ACTIONS WOULD
SLIGHTLY INCREASE OPPORTUNITIES FOR THE
MAINTENANCE AND IMPROVEMENT OF WATER QUALITY;
REDUCE POTENTIAL FOR ACCELERATED SOIL EROSION
AND SOIL LOSS; ENHANCE SCENIC VALUES AND NATIVE
PLANT COMMUNITIES; AND BENEFIT EXISTING
SCIENTIFIC, HISTORIC, AND ARCHAEOLOGICAL
FEATURES. REDUCTION OF POTENTIAL FLOOD DAMAGE
AND PROTECTION OF HUMAN LIFE WOULD RESULT FROM
THE PROPOSED MANAGEMENT PLANS. LIVESTOCK
GRAZING AND FORAGE PRODUCTION WOULD IMPROVE, AS
WOULD RECREATION OPPORTUNITIES, TRANSPORTATION
OF NATURAL GAS, AND EMERGENCY PREPAREDNESS.
(NEG)FEDERAL INFLUENCE ON FLOODPLAIN ZONING AND
LIMITATIONS ON FLOODPLAIN USES WOULD INCREASE.
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Draper, W.M. AECTCV. Crosby, D.G. New York : Springer-Verlag. Archives of environmental contamination and toxicology. Jan 1983. v. 12 (1). p. 121-126. Includes references. (NAL Call No.: TD172.A7).

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Physical, chemical, and biological aspects of the Duwamish River estuary King County, Washington, 1963-67 / by J.F. Santos and J.D. Stoner. -.

Santos, J. F. (John Francis), 1921-. Stoner, J. D. Washington, D.C. U.S. G.P.O. 1972. "Prepared in cooperation with the Municipality of Metropolitan Seattle.". vi, 74 p. : ill., maps ; 24 cm. --. Bibliography: p. 72-74. (NAL Call No.: 407 G29W no.1873-C).

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JAZAA. Rampe, J.J. Jackson, R.D.; Sommerfeld, M.R. Tempe, Ariz. : The Academy. Journal of the Arizona-Nevada Academy of Science. 1984. v. 19 (2). p. 115-120. maps. Includes references. (NAL Call No.: DNAL 500 AR44).

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PINE CREEK WATERSHED, LAMAR COUNTY, TEXAS.

CITY OF PARIS. TEMPLE, TEXAS DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE JULY 1981 (EPA: JUNE 23, 1982). (PUR)FLOOD CONTROL AND WATERSHED PROTECTION MEASURES ARE PROPOSED FOR THE 119,040-ACRE PINE CREEK WATERSHED IN LAMAR COUNTY, TEXAS. PINE CREEK IS A TRIBUTARY OF THE RED RIVER AND FLOWS INTO THE RIVER ABOUT 75 MILES DOWNSTREAM OF LAKE TEXOMA. THE PROJECT WOULD INVOLVE PROVISIONS FOR ACCELERATED TECHNICAL ASSISTANCE FOR THE APPLICATION OF NEEDED LAND TREATMENT AND INSTALLATION OF 15 FLOODWATER-RETARDING STRUCTURES, MODIFICATION OF AN EXISTING STRUCTURE TO PROVIDE IT WITH FLOOD-CONTROL CAPACITY, IMPLEMENTATION OF 7.06 MILES OF CHANNEL WORK, AND CONSTRUCTION OF FOUR GRADE STABILIZATION STRUCTURES. TO DATE, ACCELERATED TECHNICAL ASSISTANCE HAS RESULTED IN APPLICATION OF CONSERVATION LAND TREATMENT, AND 13 FLOODWATER-RETARDING STRUCTURES HAVE BEEN CONSTRUCTED AND 7.06 MILES OF CHANNEL WORK IMPLEMENTED. TWO FLOODWATER-RETARDING STRUCTURES, MODIFICATION OF AN EXISTING STRUCTURE TO PROVIDE FOR FLOOD-CONTROL FEATURES, AND FOUR GRADE STABILIZATION STRUCTURES REMAIN TO BE INSTALLED TO COMPLETE THE PROJECT. ESTIMATED COST OF INSTALLATION OF STRUCTURAL MEASURES FOR THE OVERALL PROJECT IS \$3.5 MILLION; THE COST OF STRUCTURAL MEASURES ALREADY INSTALLED WAS \$1.97 MILLION. (POS)INSTALLATION OF THE REMAINING STRUCTURAL MEASURES WOULD REDUCE FLOODING, SCOURING, AND SEDIMENT DAMAGES ON 11,828 ACRES OF FLOODPLAIN. AVERAGE ANNUAL AREA FLOODED WOULD BE REDUCED FROM 17,439 ACRES TO 14,250 ACRES. THE AREA OF FLOODPLAIN FLOODED BY A 25-YEAR FREQUENCY STORM WOULD DECLINE FROM 10,574 ACRES TO 9,857 ACRES. APPROXIMATELY 85 PROPERTY OWNERS WOULD BENEFIT. SEDIMENT LOAD WOULD BE REDUCED TO 30,500 TONS ANNUALLY. IMPROVEMENT OF FISH HABITAT WOULD INCREASE THE NUMBER OF ANNUAL FISHING DAYS SUPPORTED BY THE WATERSHED FROM 5,475 TO 9,125. OPPORTUNITIES FOR WATER-BASED RECREATION AT LAKE CROOK WOULD BE INCREASED. APPROXIMATELY 42 NEW JOBS WOULD BE CREATED IN THE AREA, AND 100 PERSON-YEARS OF LABOR WOULD BE CREATED BY CONSTRUCTION ACTIVITIES. (NEG)STRUCTURAL MEASURES WOULD DISPLACE 3.8 MILES OF EPHEMERAL. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 161 PAGES. (NAL Call No.: 82-0550F).

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Pisciculture in wastewater (Fish culture methods, water quality).

Henderson, S. Ann Arbor, Mich. : Ann Arbor Science Publishers, 1982. Water reuse / edited by E. Joe Middlebrooks. p. 419-428. 20 ref. (NAL Call No.: TD429.W385).

3708

Planning considerations for detection basins (Water quality, storm runoff).

Cobb, E.D. New York : American Society of Civil Engineers, c1982. Proceedings of the Conference on Stormwater Detention Facilities : planning, design, operation, and maintenance / New England College, Henniker, New Hampshire, August 2-6, 1982 : edited by W. DeGroot. p. 16-20. (NAL Call No.: TD665.C65 1982).

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Planning for groundwater protection /edited by G. William Page.

Page, George William, 1945-. Orlando : Academic Press, 1987. xii, 387 p. : ill., maps ; 24 cm. Includes bibliographies and index. (NAL Call No.: DNAL TD426.P5).

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Planning to control non-point water pollution: an agricultural management dilemma.

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McDowell, L.L. Willis, G.H.; Murphree, C.E. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-2608). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

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Voss, Regis. Herman, J. Clayton. & Iowa agriculture and water quality. Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011 1980. This publication discusses the possible dangers from nutrient runoff. Specific areas examined are sources of nutrients, applied nutrients, losses from runoff, losses from sediment, losses from drainage, other nutrient loss, and pasture nutrient losses. 6 p. : ill. (NAL Call No.: Document available from source.). (NAL Call No.: Pm-901g).

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Plant succession and hydrologic recovery on a deforested and herbicided watershed.

Kochenderfer, J.N.FDSCA. Wendel, G.W. Washington : Society of American Foresters. Forest science. Sept 1983. v. 29 (3). p. 545-558. ill. Includes references. (NAL Call No.: 99.8 F7632). (NAL Call No.: 82-0072F).

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PLUM BAYOU WATERSHED, FLAT BAYOU PORTION, JEFFERSON COUNTY, ARKANSAS.

FLAT BAYOU CONSERVATION DISTRICT. LITTLE ROCK, ARKANSAS DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE OCTOBER 1981 (EPA: NOVEMBER 10, 1981). (PUR)MODIFICATION OF 24.29 MILES OF CHANNEL AND PROVISION OF TECHNICAL ASSISTANCE TO ACCELERATE PLANNING AND APPLICATION OF LAND TREATMENT OVER A FOUR-YEAR PERIOD ON THE 21,037-ACRE FLAT BAYOU PORTION OF THE PLUM BAYOU WATERSHED IN JEFFERSON COUNTY, ARKANSAS ARE PROPOSED. CHANNEL WORK WOULD INCLUDE 4.35 MILES OF CLEARING AND SNAGGING, 0.02 MILES OF RIPRAPING, 2.74 MILES OF WIDENING, AND 17.8 MILES OF DEEPENING THE EXISTING MAN-MADE CHANNELS. LAND-TREATMENT MEASURES WOULD INCLUDE IMPLEMENTATION OF CONSERVATION-CROPPING SYSTEMS ON 3,700 ACRES OF CROPLAND, EROSION AND SEDIMENTATION-CONTROL SYSTEMS ON THE 1,161 ACRE DRAINAGE AREA ASSOCIATED WITH PATTON LAKE, AND MEASURES TO PROTECT CHANNEL WORK. A WEIR WOULD BE INSTALLED IN THE MAIN DITCH NEAR ITS INTERSECTION WITH THE ST. LOUIS SOUTHWESTERN RAILWAY. A WATER LEVEL CONTROL STRUCTURE WOULD BE INSTALLED AT PATTON LAKE, AND CONSERVATION EASEMENTS WOULD BE PURCHASED ON 979 ACRES OF BOTTOMLAND HARDWOOD STANDS AND WETLANDS. A WILDLIFE-MANAGEMENT PLAN WOULD BE DEVELOPED AND IMPLEMENTED ON EACH EASEMENT, AND FOREST-MANAGEMENT PLANS WOULD BE APPLIED AS WELL. ESTIMATED COST OF THE PROJECT, WHICH WOULD INVOLVE PROVISION OF 2.1 PERSON-YEARS OF TECHNICAL ASSISTANCE, IS \$2.3 MILLION, AND THE BENEFIT-COST RATIO IS ESTIMATED AT 1.9. (POS)CHANNEL WORK WOULD REDUCE FLOODING AND IMPROVE DRAINAGE ON 13,225 ACRES OF FARMLAND. SEVENTY-FIVE FARM UNITS WOULD BENEFIT FROM IMPROVED DRAINAGE AND REDUCED FLOODING. EASEMENTS ON WETLANDS AND BOTTOMLAND WOULD PROTECT WILDLIFE HABITAT. EROSION ON THE 3,700

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ACRES OF CROPLAND TO BE TREATED VIA CONSERVATION-CROPPING SYSTEMS WOULD BE DECREASED BY 30 PERCENT, AND EROSION ON THE CROPLAND ABOVE PATTON LAKE WOULD BE DECREASED BY 45 PERCENT. SEDIMENT YIELD WITHIN THE WATERSHED WOULD DECLINE ACCORDINGLY. LAND TREATMENTS WOULD REDUCE WATER QUALITY PROBLEMS IN PATTON LAKE BY DECREASING SEDIMENT CONCENTRATION. AVERAGE ANNUAL FLOOD DAMAGES WOULD BE REDUCED BY \$257,310. (NEG) CHANNEL MODIFICATIONS WOULD RESULT IN THE. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 145 PAGES.

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Pollution studies on Nigerian rivers: the onset of lead pollution of surface waters in Ibadan. Mombeshora, C.ENVID. Osibanjo, O.; Ajayi, S.O. New York : Pergamon Press. Environment international. 1983. v. 9 (2). p. 81-84. maps. Includes references. (NAL Call No.: TD169.E54).

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Possible waterborne transmission and maintenance of influenza viruses in domestic ducks (Hong Kong). Markwell, D.D. Shortridge, K.F. Washington, D.C., American Society for Microbiology. Applied and environmental microbiology. Jan 1982. v. 43 (1). p. 110-116. Includes 25 ref. (NAL Call No.: 448.3 AP5).

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Potential aquifer pollution from nitrate leaching following the plowing of temporary grassland. Cameron, K.C. Wild, A. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. Apr/June 1984. v. 13 (2). p. 274-278. Includes references. (NAL Call No.: QH540.J6).

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Potential ecological impacts of snowpack augmentation in the Uinta Mountains, Utah (Water Resources). Harper, K.T. (Ann Arbor, Mich.) : Ann Arbor Science, c1983. Aquatic resources management of the Colorado River ecosystem / edited by V.D. Adams, V.A. Lamarra. p. 211-231. maps. Includes references. (NAL Call No.: TC425.C6A58).

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Potential for acid snowmelt in the Wasatch Mountains / by Jay J. Messer, Lloyd Slezak, Charles I. Liff. -.
Messer, Jay (Jay J.). Slezak, Lloyd.; Liff, Charles I. Logan, Utah Utah Water Research Laboratory, Utah State University 1982.
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The Potential for groundwater contamination along basin margins in the arid West : alluvial fans and lake features / by Calvin G. Clyde ... (et al.). -.
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Medine, A.J. (Ann Arbor, Mich.) : Ann Arbor Science, c1983. Aquatic resources management of the Colorado River ecosystem / edited by V.D. Adams, V.A. Lamarra. p. 399-424. maps. Includes references. (NAL Call No.: TC425.C6A58).

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Potential of water and salt yields from surface runoff on public lands in the Price River basin / J. Paul Riley ... (et al.). -.
Riley, J. Paul; (John Paul).; 1927-. Logan, Utah Utah Water Research Laboratory, College of Engineering, Utah State University 1982. x, 94 p. : ill., maps ; 28 cm. --. Bibliography: p. 53-54. (NAL Call No.: TC424.U8W38 v.82/01).

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Schad, T.M. Rockville, Md. : Interstate Commission on the Potomac River Basin, 1980. Water in the Great Valley: people-problems--decisions : proceedings of the 1979 fall public meeting / editors, Beverly Bandler and Kevin C. Flynn. p. 6-7. (NAL Call No.: TC425.P8I52).

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Wann, D. Washington, D.C. : Office of Public Awareness. EPA Environmental Protection Agency journal. Oct 1986. v. 12 (8). p. 15-16. (NAL Call No.: DNAL TD171.U5).

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Merle, C. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-2543). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

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Love, S. K. Washington, D.C. U.S. G.P.O. 1968. One folded map in pocket ~Includes index. viii, 154 p. : ill., map ; 24 cm. --. (NAL Call No.: 407 G29W no.1886).

3802

Quality of surface waters for irrigation Western States 1962 /prepared under the direction of S.K. Love. --.

Love, S. K. Washington, D.C. : U.S. G.P.O., 1966. Chiefly tables.~ Includes index. viii, 143 p., 1 folded leaf of plates : ill., map ; 24 cm. --. Bibliography: p. 24-25. (NAL Call No.: DNAL 407 G29W no.1946).

3803

Quality of surface waters for irrigation western states, 1963 /prepared under the direction of S.K. Love. --.

Love, S. K. Washington, D.C. : U.S. G.P.O., 1967. Includes index. viii, 148 p., 1 folded leaf of plates : ill., maps ; 24 cm. --. Bibliography: p. 26-27. (NAL Call No.: DNAL 407 G29W no.1952).

3804

Quality of surface waters for irrigation, western states 1965. -.

Washington, D.C. U.S. Govt. Print. Off. 1969. Includes index. viii, 148 p. ; 23 cm. --. (NAL Call No.: 407 G29W no.1967).

3805

Quality of surface waters for irrigation western United States, 1951 /prepared under the direction of S.K. Love. --.

Love, S. K. Washington, D.C. : U.S. G.P.O., 1954. Chiefly tables.~ Includes index. viii, 153 p., 2 folded leaves of plates : ill., maps ; 24 cm. --. Bibliography: p. 14. (NAL Call No.: DNAL 407 G29W no.1264).

3806

Quality of surface waters for irrigation western United States, 1952 /prepared under the direction of S.K. Love. --.

Love, S. K. Washington, D.C. : U.S. G.P.O., 1955. Chiefly tables.~ Includes index. viii, 179 p., 1 folded leaf of plates : ill., map ; 24 cm. --. Bibliography: p. 15. (NAL Call No.: DNAL 407 G29W no.1362).

3807

Quality of surface waters for irrigation western United States 1953 /S.K. Love. --.

Love, S. K. Washington, D.C. : U.S. G.P.O., 1957. Chiefly tables.~ Includes index. viii, 203 p., 1 leaf of plates : 1 folded map ; 24 cm. --. Bibliography: p. 21. (NAL Call No.: DNAL 407 G29W no.1380).

3808

Quality of surface waters for irrigation, western United States, 1954 /prepared under the direction of S.K. Love. --.

Love, S. K. Washington, D.C. : U.S. G.P.O., 1958. Chiefly tables.~ Includes index. viii, 205 p., 1 folded leaf of plates : ill., map ; 24 cm. --. Bibliography: p. 21-22. (NAL Call No.: DNAL 407 G29W no.1430).

3809

Quality of surface waters for irrigation western United States, 1955 /prepared under the direction of S.K. Love. --.

Love, S. K. Washington, D.C. : U.S. G.P.O., 1959. Chiefly tables.~ Includes index. viii, 189 p., 1 folded leaf of plates : ill., map ; 24 cm. --. Bibliography: p. 22-23. (NAL Call No.: DNAL 407 G29W no.1465).

3810

Quality of surface waters for irrigation western United States, 1956 /prepared under the direction of S.K. Love. --.

Love, S. K. Washington, D.C. : U.S. G.P.O., 1960. Includes index. viii, 185 p., 1 folded leaf of plates : ill., map ; 24 cm. --. Bibliography: p. 23-24. (NAL Call No.: DNAL 407 G29W no.1485).

(WATER RESOURCES AND MANAGEMENT)

3811

Quality of surface waters for irrigation western United States 1957 /prepared under the direction of S.K. Love. --.
Love, S. K. Washington, D.C. : U.S. G.P.O., 1960. Includes index. viii, 183 p., 1 folded leaf of plates : ill., map ; 25 cm.--.
Bibliography: p. 21. (NAL Call No.: DNAL 407 G29W no.1524).

3812

Quality of surface waters for irrigation Western United States 1958 / prepared under the direction of S.K. Love. --.
Washington, D.C. U.S. G.P.O. 1961. Chiefly tables ~Includes index. viii, 177 p., (1) leaf of plates : map ; 23 cm. --. Bibliography: p. 21. (NAL Call No.: 407 G29W no.1575).

3813

Quality of surface waters for irrigation Western United States 1959. --.
Washington, D.C. U.S. G.P.O. 1963. Includes index. viii, 147 p. : map ; 25 cm. --.
Bibliography: p. 22. (NAL Call No.: 407 G29W no.1699).

3814

Quality of surface waters in the lower Columbia River Basin / by J.F. Santos. --.
Santos, J. F. (John Francis), 1921-. Washington, D.C. U.S. G.P.O. 1965. Includes index. iv, 78 p. : ill., maps ; 24 cm. --.
Bibliography: p. 72-73. (NAL Call No.: 407 G29W no.1784).

3815

Quality of surface waters of Alaska, 1961-63 /prepared under the direction of S.K. Love ; prepared in cooperation with the Alaska Department of Health and Welfare, the city of Anchorage, and the U.S. Bureau of Reclamation. --.
Love, S. K. Washington, D.C. : U.S. G.P.O., 1965. vi, 95 p. : ill., map ; 24 cm. --.
Bibliography: p. 17. (NAL Call No.: DNAL 407 G29W no.1953).

3816

Quality of surface waters of the United States, 1941 /by W.D. Collins, C.S. Howard, and S.K. Love ; prepared in cooperation with the States of Georgia, New Mexico, and Texas and other agencies. --.
Collins, W. D. Washington, D.C. : U.S. G.P.O., 1943. Chiefly tables.~ Includes index. iv, 74 p. : ill. ; 24 cm. --. (NAL Call No.: DNAL 407 G29W no.942).

3817

Quality of surface waters of the United States, 1942 /by W.D. Collins and S.K. Love ; prepared in cooperation with the states of Georgia, New Mexico, and Texas and other agencies. --.
Collins, W. D. Washington, D.C. : U.S. G.P.O., 1944. Chiefly tables.~ Includes index. iv, 68 p. : ill. ; 24 cm. --. (NAL Call No.: DNAL 407 G29W no.950).

3818

Quality of surface waters of the United States, 1943 with a summary of analyses of streams in Colorado River, Pecos River, and Rio Grande Basins, 1925 to 1943 /by C.S. Howard and S.K. Love ; prepared in cooperation with the states of Georgia, New Mexico, and Texas and other agencies. --.
Howard, C. S. 1896-. Washington, D.C. : U.S. G.P.O., 1945. Chiefly tables.~ Includes index. iv, 180 p. : ill. ; 24 cm. --. (NAL Call No.: DNAL 407 G29W no.970).

3819

Quality of surface waters of the United States, 1944 /prepared by Water Resources Branch, Division of Quality of Water ; in cooperation with the states of Florida, Georgia, Iowa, Louisiana, New Mexico, North Carolina, Pennsylvania, and Texas and other agencies. --.
Washington, D.C. : U.S. G.P.O., 1947. Chiefly tables.~ Includes index. v, 311 p. : ill. ; 24 cm. --. (NAL Call No.: DNAL 407 G29W no.1022).

3820

Quality of surface waters of the United States, 1945 /prepared under the direction of C.G. Paulsen ; prepared in cooperation with the States of Florida, Georgia, Iowa, Louisiana, New Mexico, North Carolina, Pennsylvania, Texas, and Virginia, and other agencies. --.
Paulsen, C. G. Washington, D.C. : U.S. G.P.O., 1949. Includes index. vi, 335 p. : ill. ; 24 cm. --. (NAL Call No.: DNAL 407 G29W no.1030).

3821

Quality of surface waters of the United States, 1946 /prepared under the direction of C.G. Paulsen ; prepared in cooperation with the states of Arkansas, Florida, Georgia, Iowa, New Mexico, North Carolina, Ohio, Pennsylvania, South Carolina, Texas, and Virginia and other agencies. --.
Paulsen, C. G. Washington, D.C. : U.S. G.P.O., 1950. Includes index. vii, 486 p. : ill. ; 24 cm. --. Bibliography: p. 10-12. (NAL Call No.: DNAL 407 G29W no.1050).

3822

Quality of surface waters of the United States, 1947 /prepared under the direction of C.G. Paulsen ; prepared in cooperation with the states of Arkansas, Florida, Georgia, Iowa, New Mexico, North Carolina, Ohio, Oklahoma, Pennsylvania, South Carolina, Texas, Virginia and other agencies. --.

Paulsen, C. G. Washington, D.C. : U.S. G.P.O., 1952. Chiefly tables.~ Includes index. xi, 651 p. : ill. ; 24 cm. --. Bibliography: p. 14-15. (NAL Call No.: DNAL 407 G29W no.1102).

3823

Quality of surface waters of the United States, 1948 parts 1-6 /prepared under the direction of C.G. Paulsen ; prepared in cooperation with the states of Florida, Georgia, Iowa, North Carolina, Ohio, Pennsylvania, South Carolina, Virginia and other agencies. --.

Paulsen, C. G. Washington, D.C. : U.S. G.P.O., 1953. Includes index. ix, 515 p. : ill., map ; 24 cm. --. Bibliography: p. 21. (NAL Call No.: DNAL 407 G29W no.1132).

3824

Quality of surface waters of the United States, 1948 /prepared under the direction of C.G. Paulsen ; prepared in cooperation with the states of Arkansas, Missouri, New Mexico, Oklahoma, and Texas and other agencies. --.

Paulsen, C. G. Washington, D.C. : U.S. G.P.O., 1952. Includes index. viii, 373 p. : ill., maps ; 24 cm. --. Bibliography: p. 21. (NAL Call No.: DNAL 407 G29W no.1133).

3825

Quality of surface waters of the United States, 1949 /prepared under the direction of C.G. Paulsen. --.

Paulsen, C. G. Washington, D.C. : U.S. G.P.O., 1953-1954. Chiefly tables.~ No. 1162 - pts. 1-6, no. 1163 - pts. 7-14. 14 v. in 2 : ill., maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: DNAL 407 G29W no.1162-1163).

3826

Quality of surface waters of the United States, 1950 /prepared under the direction of S.K. Love. --.

Love, S. K. Washington, D.C. : U.S. G.P.O., 1954-1955. Chiefly tables. 14 v. in 2 : ill., maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: DNAL 407 G29W no.1186-1189).

3827

Quality of surface waters of the United States, 1951 /prepared under the direction of S.K. Love. --.

Love, S. K. Washington, D.C. : U.S. G.P.O., 1955-1956. Chiefly tables. 14 v. in 2 : ill., maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: DNAL 407 G29W no.1197-1200).

3828

Quality of surface waters of the United States, 1952 /prepared under the direction of S.K. Love. --.

Love, S. K. Washington, D.C. : U.S. G.P.O., 1956-1957. Chiefly tables. 14 v. in 2 : ill., maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: DNAL 407 G29W no.1250-1253).

3829

Quality of surface waters of the United States, 1953 /prepared under the direction of S.K. Love. --.

Love, S. K. Washington, D.C. : U.S. G.P.O., 1957-1958. Chiefly tables. 14 v. in 2 : ill., maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: DNAL 407 G29W no.1290-1293).

3830

Quality of surface waters of the United States, 1954 /prepared under the direction of S.K. Love. --.

Love, S. K. Washington, D.C. : U.S. G.P.O., 1959. Chiefly tables. 14 v. in 2 : ill., maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: DNAL 407 G29W no.1400-1403).

3831

Quality of surface waters of the United States, 1954 /prepared under the direction of S.K. Love. --.

Love, S. K. Washington, D.C. : U.S. G.P.O., 1958-1959. Chiefly tables. 14 v. in 2 : ill., maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: DNAL 407 G29W no.1350-1353).

3832

Quality of surface waters of the United States, 1956 / prepared under the direction of S.K. Love. --.

Love, S. K. Washington, D.C. U.S. G.P.O. 1960. Chiefly tables. 14 v. in 3 : ill., maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: 407 G29W no.1450-1453).

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3833

Quality of surface waters of the United States, 1957 / prepared under the direction of S.K. Love. -.
Love, S. K. Washington, D.C. U.S. G.P.O. 1960. 14 v. in 2 : ill., maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: 407 G29W no.1520-1523).

3834

Quality of surface waters of the United States, 1958 / prepared under the direction of S.K. Love. -.
Love, S. K. Washington, D.C. U.S. G.P.O. 1962-1964. Chiefly tables. 14 v. in 3 : ill., maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: 407 G29W no.1571-1574).

3835

Quality of surface waters of the United States, 1959 / prepared under the direction of S.K. Love. -.
Love, S. K. Washington, D.C. U.S. G.P.O. 1965-1966. Chiefly tables. 14 v. in 3 : ill., maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: 407 G29W no.1641-1645).

3836

Quality of surface waters of the United States 1960 ; prepared in cooperation with the states of Alabama, Connecticut, Delaware, Florida, Georgia, Maryland, Mississippi, New Jersey, New York, North Carolina, Pennsylvania, South Carolina, and with other agencies. -.
Washington, D.C. U.S. G.P.O. 1966, 1968. Chiefly tables. 14 v. in 3 : maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: 407 G29W no.1741-1745).

3837

Quality of surface waters of the United States 1961. -.
Washington, D.C. U.S. G.P.O. 1966-68. 5 v. in 3 ; 24 cm. Includes bibliographies. (NAL Call No.: 407 G29W no.1881-1885).

3838

Quality of surface waters of the United States, 1962 / (Geological Survey) ; prepared in cooperation with the states of Arkansas ... (et al.). -.
Washington, D.C. U.S. G.P.O. For sale by the Supt. of Docs., U.S. G.P.O. 1964. Chiefly tables. 14 v. in 5 : maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: 407 G29W no.1941-1945).

3839

Quality of surface waters of the United States 1963 / (U.S. Dept. of the Interior, Geological Survey) ; prepared in cooperation with the states of Alabama ... (et al.). -.
United States ~ Geological Survey. Washington, D.C. U.S. G.P.O. 1967. Chiefly tables ~Includes index. 14 v. in 4 : maps ; 23 cm. --. (NAL Call No.: 407 G29W no.1947-1951).

3840

Quality of surface waters of the United States, 1964 / (Geological Survey) ; prepared in cooperation with the states of Alabama ... (et al.). -.
Washington, D.C. U.S. G.P.O. For sale by the Supt. of Docs., U.S. G.P.O. 1969-1970. Chiefly tables. 15 v. in 6 : maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: 407 G29W no.1954-1959).

3841

Quality of surface waters of the United States, 1965. -.
Geological Survey (U.S.). Washington, D.C. U.S. G.P.O. 1970. Includes bibliographies and indexes. 16 pts. in 6 vol. : map ; 24 cm. --. (NAL Call No.: 407 G29W no.1961-1966).

3842

Quality of surface waters of the United States, 1966 / (U.S. Geological Survey) ; prepared in cooperation with the states of Alabama ... (et al.). -.
Washington, D.C. U.S. G.P.O. For sale by the Supt. of Docs., U.S. G.P.O. 1970-1971. Chiefly tables. 16 v. in 6 : maps ; 24 cm. --. Includes bibliographies and indexes. (NAL Call No.: 407 G29W no.1991-1996).

3843

Quality of surface waters of the United States, 1967 / (U.S. Dept. of the Interior, Geological Survey) ; prepared in cooperation with the states of Alabama ... (et al.). -.
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3844

Quality of surface waters of the United States, 1968 / (U.S. Dept. of the Interior, Geological Survey) ; prepared in cooperation with the states of Connecticut ... (et al.). -.
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bibliographies and indexes. (NAL Call No.: 407 G29W no.2091-2100).

3845

Quality of surface waters of the United States, 1969 / (U.S. Geology Survey ; prepared in cooperation with the states of Connecticut ... (et al.). -.

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3846

Quality of surface waters of the United States, 1970 / U.S. Dept. of the Interior, Geological Survey ; prepared in cooperation with the states of Alabama ... (et al.). -.

United States ~ Geological Survey. Washington, D.C. U.S. G.P.O. 1975. Chiefly tables ~Includes index. 16 v. in 10 : maps ; 23 cm. --. (NAL Call No.: 407 G29W no.2151-2160).

3847

Quality of the Arkansas River and irrigation-return flows in the lower Arkansas River Valley, Colorado /by Doug Cain ; prepared in cooperation with the Southwestern Colorado Water Conservancy District. --.

Cain, Doug. Lakewood, Colo. : U.S. Dept. of the Interior, Geological Survey ; Denver, Colo. : Open-File Services Section, Western Distribution Branch, U.S. Geological Survey , 1985. Four maps on folded leaf in pocket. vi, 85 p. : ill., maps (some col.) ; 28 cm. --. Bibliography: p. 41-42. (NAL Call No.: DNAL GB701.W375 no.84-4273).

3848

Quality of the ground water in basalt of the Columbia River group, Washington, Oregon, and Idaho / by R.C. Newcomb. -.

Newcomb, R. C. (Reuben Clair), 1909-. Washington, D.C. U.S. Govt. Print. Off. 1972. One folded colored map in pocket. iv, 71 p. : ill., map ; 23 cm. --. Bibliography: p. 41-42. (NAL Call No.: 407 G29W no.1999-N).

3849

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3850

Quality of water, Conchas Reservoir, New Mexico, 1939-49 /by John D. Hem. --.

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3851

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3852

Quality of water from bedrock aquifers in the South Carolina Piedmont /by Glenn G. Patterson and Gary G. Padgett ; prepared in cooperation with the South Carolina Department of Health and Environmental Control. --.

Patterson, Glenn G. Padgett, Gary G. Columbia, S.C. : U.S. Dept. of the Interior, Geological Survey ; Denver, Colo. : Open-File Services Section, Western Distribution Branch, 1984. iv, 24 p. : ill., maps ; 28 cm. --. Bibliography: p. 23-24. (NAL Call No.: DNAL GB701.W375 no.84-4028).

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Quality of water in lower San Joaquin River as related to agriculture : a report / by Warren R. Schoonover, consultant for the United States Department of the Interior Bureau of Reclamation. -.

Schoonover, Warren R. (Sacramento, Calif.?) The Bureau, Region 2 1963. Cover title: Quality of Water, Central Valley Project, California: a report on water quality in lower San Joaquin River as related to agriculture. iii, 91 leaves : ill., map ; 27 cm. Includes bibliographical references. (NAL Call No.: TD224.C2S35).

3854

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3855

The quality of water in the principal aquifers of southwestern Washington /by J.C. Ebbert and K.L. Payne ; prepared in cooperation with the State of Washington Department of Ecology. --. Ebbert, J. C. Payne, K. L. Tacoma, Wash. : U.S. Dept. of Interior, Geological Survey ; Lakewood, Colo. : Open-File Services Section, Western Distribution Branch, U.S. Geological Survey distributor , 1985. Five folded maps in pocket. v, 59 p. : ill., maps ; 28 cm. --. Bibliography: p. 58-59. (NAL Call No.: DNAL GB701.W375 no.84-4093).

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Quality of water of the Gila River Basin above Coolidge Dam, Arizona /by John D. Hem ; prepared in cooperation with Defense Plant Corporation. --. Hem, J. D. 1916-. Washington, D.C. : U.S. G.P.O., 1950. Two folded maps in pocket.~ Includes index. vi, 230 p. : ill., maps ; 24 cm. --. (NAL Call No.: DNAL 407 G29W no.1104).

3857

Quantitative analysis of volatile organic compounds by GC-MS (Gas-chromatography-mass-spectrometry, US drinking water supplies). Lingg, R.D. Melton, R.G.; Kopfler, F.C.; Coleman, W.E.; Mitchell, D.E. (Denver, Colo.) : American Water Works Association, c1981. Analyzing organics in drinking water. p. 23-30. ill. Includes references. (NAL Call No.: TD427.07A53).

3858

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Quantity and quality of storm runoff from three urban catchments in Bellevue, Washington /by Edmund A. Prych and J.C. Ebbert ; prepared in cooperation with the city of Bellevue. --. Prych, Edmund A. Ebbert, J. C. Tacoma, Wash. : U.S. Dept. of the Interior, Geological Survey ; Lakewood, Colo. : Open-File Services Section, Western Distribution Branch, 1986. Shipping list no.: 86-489-P.~ Three maps on three folded

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Quantity and quality of streamflow in the southeastern Uinta Basin, Utah and Colorado /by K.L. Lindskov and Briant A. Kimball. --. Lindskov, K. L. Kimball, Briant A. Washington, D.C. : U.S. G.P.O. : For sale by the Supt. of Docs., 1984. vii, 72 p. : ill., maps ; 29 cm. --. Bibliography: p. 69-71. (NAL Call No.: DNAL 407 G29W no.2224).

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Quantity and quality of streamflow in the White River Basin, Colorado and Utah /by Jeanne M. Boyle, Kenneth J. Covay, and Daniel P. Bauer. --. Boyle, Jeanne M. Covay, Kenneth J.; Bauer, Daniel P., 1941-. Lakewood, Colo. : U.S. Dept. of the Interior, Geological Survey ; Denver, Colo. : Open-File Services Section, Western Distribution Branch, USGS distributor , 1984. vii, 84 p. : ill., maps ; 28 cm. --. Bibliography: p. 73. (NAL Call No.: DNAL GB701.W375 no.84-4022).

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3865

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Quantity and quality of surface waters of Alaska, 1960 /prepared under the direction of E.L. Hendricks, S.K. Love. --.
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Quantity and quality of urban runoff from the Chester Creek Basin, Anchorage, Alaska /by Timothy P. Brabets ; prepared in cooperation with the Municipality of Anchorage.
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3870

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Regional estimates of off-site damages from soil erosion.
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3904

REGULATORY STORAGE DIVISION, CENTRAL ARIZONA PROJECT, MARICOPA, PINAL, AND GILA COUNTIES, ARIZONA.
DEPARTMENT OF AGRICULTURE~ FOREST SERVICE. BOULDER CITY, NEVADA DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION APRIL 1983 (EPA: APRIL 29, 1983). (PUR)CONSTRUCTION OR MODIFICATION OF FOUR DAMS AND INSTALLATION OF APPURTENANT FACILITIES ARE PROPOSED TO CREATE A REGULATORY STORAGE DIVISION FOR THE CENTRAL

ARIZONA PROJECT (CAP), A WATER RESOURCES DEVELOPMENT PROJECT ENCOMPASSING 13,400 SQUARE MILES IN MARICOPA, GILA, AND PINAL COUNTIES, ARIZONA. DEVELOPMENT OF THE REGULATORY STORAGE DIVISION WOULD INVOLVE REPLACEMENT OF THE EXISTING WADDELL DAM AT LAKE PLEASANT ON THE AGUA FRIA RIVER TO PROVIDE FOR REGULATORY STORAGE AND FLOOD CONTROL; EXCAVATION OF A CANAL AND CONSTRUCTION OF A PUMPING PLANT TO CONVEY WADDELL RESERVOIR WATER TO THE GRANITE REEF AQUEDUCT; CONSTRUCTION OF THE CLIFF DAM ON THE VERDE RIVER AND ROOSEVELT DAM ON THE SALT RIVER TO PROVIDE FOR FLOOD CONTROL, WATER CONSERVATION, AND DAM SAFETY ASSURANCE; AND MODIFICATION OR REPLACEMENT OF THE STEWART MOUNTAIN DAM ON THE SALT RIVER FOR DAM SAFETY ASSURANCE. DAM SAFETY ASSURANCE FEATURES WOULD BE DEVELOPED TO CONTROL FLOWS THROUGHOUT THE CAP SYSTEM. THE STORAGE DIVISION PROJECT WOULD PROVIDE 660,000 ACRE-FEET OF REGULATORY STORAGE SPACE AT THE NEW WADDELL RESERVOIR AND 170,000 ACRE-FEET OF NEW CONSERVATION SPACE AT CLIFF RESERVOIR, AND WOULD USE 50 PERCENT OF THE SEDIMENT POOL AT ROOSEVELT LAKE TO INCREASE CAP YIELD BY 137,600 ACRE-FEET PER YEAR. PROJECTED AVERAGE ANNUAL CAP WATER YIELD FOR THE PLAN WOULD BE 1.2 MILLION ACRE-FEET PER YEAR. WATER STORAGE CAPACITY AND RECREATION FACILITIES AT THE EXISTING WADDELL DAM WOULD BE REPLACED AT THE NEW RESERVOIR, AND RECREATION SITES WOULD BE DEVELOPED AT OTHER RESERVOIR SITES. DEPENDING ON WHETHER NEW OR MODIFIED STRUCTURES ARE CONSIDERED, ESTIMATED COST OF THE PROJECT RANGES FROM \$978.4 MILLION TO \$1.2 BILLION. (POS)OPERATION OF THE NEW AND MODIFIED STRUCTURES WOULD INCREASE OPERATING EFFICIENCY OF THE CAP THROUGH THE CONSERVATION OF SALT, VERDE, AND AGUA FRIA RIVER FLOWS AND THROUGH REGULATION OF COLORADO RIVER WATER DELIVERIES FROM THE GRANITE REEF AQUEDUCT. FLOOD FLOWS FROM THE SALT AND GILA RIVERS IN THE VIC. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209.

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Relation of bulk precipitation and evapotranspiration to water quality and water resources, St. Thomas, Virgin Islands / by Donald G. Jordan and Donald W. Fisher ; prepared in cooperation with the Government of the Virgin Islands of the United States. -. Jordan, Donald G. (Donald George), 1926-. Fisher, Donald W. Washington, D.C. U.S. G.P.O. 1977. v, 30 p. : ill., maps ; 23 cm. --. Bibliography: p. 29-30. (NAL Call No.: 407 G29W no.1663-I).

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The relation of process water quality and its reuse potential in unbleached draft paper and board mills. McCourt, J.E. Miner, R.A. Denver, Colo. : AWWA Research Foundation ; Springfield, Va. : reproduced by NTIS, 1981. Proceedings of the Water Reuse Symposium II : held August 23-28, 1981, Washington, D.C. v.1, p. 572-603. ill.

Includes references. (NAL Call No.: TD429.W3 1981).

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Relation of surface runoff quality to precipitation quality on a surface coal mine. Boyer, D.G. Lexington, Ky. : DES Publications, College of Engineering, University of Kentucky, c1983. Proceedings, 1983 Symposium on Surface Mining, Hydrology, Sedimentology and Reclamation, November 28-December 2, 1983 / editor, Donald H. Graves. p. 233-236. ill., maps. Includes 5 references. (NAL Call No.: DNAL TS195.S75S95 1983).

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Relation of urban land-use and land-surface characteristics to quantity and quality of storm runoff in two basins in California / by Marc A. Sylvester and William M. Brown III ; prepared in cooperation with the U.S. Army Engineer District, San Francisco, Corps of Engineers, and the Hydrologic Engineering Center, Davis, California. -. Sylvester, Marc A. Brown, William M.; (William Madison); 1944-. Washington, D.C. U.S. G.P.O. 1978. v, 49 p. : ill. ; 23 cm. --. Bibliography: p. 40-42. (NAL Call No.: 407 G29W no.2051).

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Relations between quality of urban runoff and quality of Lake Ellyn at Glen Ellyn, Illinois /by Robert G. Striegl and Ellen A. Cowan. Striegl, R. G. Cowan, Ellen A. Reston, Va.? : Dept. of the Interior, U.S. Geological Survey ; Denver, CO : For sale by the Books and Open-File Reports Section, 1987. v, 59 p. : ill., maps ; 28 cm. Bibliography: p. 55-56. (NAL Call No.: DNAL 407 G29W no.2301).

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Spruill, T.B. Minneapolis, Minn. : American Water Resources Association. Water resources bulletin. Dec 1983. v. 19 (6). p. 977-981. ill. Includes references. (NAL Call No.: 292.9 AM34).

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Relationship of nonpoint-source discharges, streamflow, and water quality in the Galena River Basin, Wisconsin /by Stephen J. Field ; prepared by United States Department of the Interior, Geological Survey in cooperation with the Wisconsin Department of Natural Resources.

Field, Stephen J. 1935-. Madison, Wis. : The Survey ; Lakewood, Colo. : Open-File Services Section, Western Distribution Branch, 1986. Shipping list no.: 86-988-P. vi, 48 p. : ill., maps ; 28 cm. Bibliography: p. 27-28. (NAL Call No.: DNAL GB701.W375 no.85-4214).

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The relationship of water quality and fish occurrence to soils and geology in an area of high hydrogen and sulfate ion deposition.

WARBA. Sharpe, W.E. Leibfried, V.G.; Kimmel, W.G.; DeWalle, D.R. Minneapolis, Minn. : American Water Resources Association. Water resources bulletin. Feb 1987. v. 23 (1). p. 37-46. maps. Includes references. (NAL Call No.: DNAL 292.9 AM34).

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Relationship of water quality and pollutant loads to land uses in adjoining watersheds (Rivers in Canada).

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Relationships between raw water quality, treatment, and occurrence of organics in Canadian potable water.

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McKim, H.L. Merry, C.J.; Layman, R.W. Ann Arbor, Mich., Environmental Research Institute of Michigan. Proceedings ... International Symposium on Remote Sensing of Environment. 1980. 1980. (14th). p. 1353-1362. ill. Includes 6 ref. (NAL Call No.: QC808.5.S9).

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JMSSA. Wolverton, B.C. McDonald, R.C.; Marble, L.K. Jackson, Miss. : The Academy. Journal of the Mississippi Academy of Sciences. 1984. v. 29. p. 119-127. Includes references. (NAL Call No.: DNAL 500 M697).

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Engineering Div., Specialty Conference, Minneapolis, Minn., July 14-16, 1982 / W.K. Johnson and D.R. Martenson, co-editors. p. 506-513. Includes references. (NAL Call No.: TA170.N37 1982).

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Removal of metal ions from wastewater by algae.

PIWCA. Sloan, F.J. Abernathy, A.R.; Jennett, J.C.; Goodman, G.V. Stoneham, Mass. : Butterworth Publishers. Proceedings of the ... Industrial Waste Conference, Purdue University. 1983 c1984. (38th). p. 423-429. ill. Includes 22 references. (NAL Call No.: DNAL TP995.A1I5).

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Removal of suspended solids from seafood processing waste waters.

Johnson, R.A. Lindley, K.L. New York : American Society of Civil Engineering, c1981. Proceedings of the specialty conference Water Forum '81 : host, San Francisco Section, ASCE, San Francisco, California, August 10-14, 1981 / sponsored by the Environmental Engineering Division ... (et al.). p. 910-917. ill. 1 p. ref. (NAL Call No.: TD201.W334 1981).

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Raymond, L. Jr. Batavia : Agricultural Divisions of Cooperative Extension, Four Western Plain Counties, N.Y. State. Ag impact. Aug 1983. v. 10 (8). p. 4. (NAL Call No.: S544.3.N7A45). CES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 86 PAGES. (NAL Call No.: 83-0431D).

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RIVERSIDE-BLACK BAYOU WATERSHED PLAN FOR WATERSHED PROTECTION, FLOOD PREVENTION, AGRICULTURAL WATER MANAGEMENT, AND OTHER BENEFICIAL PURPOSES, BOLIVAR AND WASHINGTON COUNTIES, MISSISSIPPI.

BLACK BAYOU DRAINAGE DISTRICT. JACKSON, MISSISSIPPI DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE JUNE 1983 (EPA: JULY 5, 19. (PUR)IMPLEMENTATION OF A FLOOD CONTROL AND LAND TREATMENT PROJECT IS PROPOSED WITHIN THE 192,300-ACRE RIVERSIDE-BLACK BAYOU WATERSHED IN WASHINGTON AND BOLIVAR COUNTIES OF WESTCENTRAL MISSISSIPPI. THE PROJECT AREA IS BOUND ON THE WEST BY THE MISSISSIPPI RIVER LEVEE AND ON THE NORTH AND EAST BY WILLIAMS BAYOU AND DEER

CREEK. STRUCTURAL MEASURES OF THE PREFERRED PLAN WOULD INCLUDE 65 MILES OF CHANNEL ENLARGEMENT, 11 MILES OF CLEARING AND SHAPING, 51 MILES OF SIMPLE CLEARING, 4 MILES OF NEW CHANNEL EXCAVATION, AND INSTALLATION OF STABILIZATION MEASURES AND WATER CONTROL STRUCTURES ALONG 100 MILES OF CHANNEL. LAND TREATMENT MEASURES, WHICH WOULD BE INSTALLED WITH THE HELP OF 6.2 PERSON-YEARS OF TECHNICAL ASSISTANCE, WOULD INCLUDE CANTILEVER OVERFALL PIPES WITHIN ON-FARM DITCHES. WHERE CHANNELS INTERCEPT WETLANDS, WATER CONTROL STRUCTURES WOULD BE INSTALLED THROUGH LEVEES TO PREVENT DRAINAGE OF WETLANDS BELOW NORMAL LOW SUMMER LEVELS. FLOWAGE EASEMENTS WOULD BE REQUIRED FOR LAND AFFECTED BY LEVEES AND WATER CONTROL STRUCTURES. TECHNICAL ASSISTANCE WOULD BE PROVIDED FOR THE TREATMENT OF APPROXIMATELY 14,000 ACRES OF CONTINUOUS CROPS ON DUBBS, BOSKET, AND DUNDEE SOILS THROUGHOUT THE WATERSHED. MITIGATION FEATURES WOULD INCLUDE PLANTING OF PERMANENT TREES AND SHRUBS ON 80 ACRES ALONG CHANNEL BERMS AND SPOIL AREAS. ESTIMATED COST OF PROJECT INSTALLATION IS \$11.5 MILLION, AND THE BENEFIT-COST RATIO IS ESTIMATED AT 5.95. (POS)REDUCTION OF FLOODING AND IMPROVEMENT OF DRAINAGE WOULD INCREASE THE EXTENT OF PRIME FARMLAND WITHIN THE WATERSHED FROM 136,500 ACRES TO 151,300 ACRES. PRODUCTIVITY OF COTTON, SOYBEAN, RICE, SMALL GRAIN, AND PASTURELAND WOULD INCREASE SIGNIFICANTLY. EROSION WOULD DECLINE 20 PERCENT, AND SEDIMENT ENTERING WATERSHED CHANNELS WOULD BE REDUCED BY 43,000 TONS PER YEAR. PROJECT BENEFITS WOULD BE WORTH \$6.7 MILLION ANNUALLY. (NEG)CONSTRUCTION ACTIVITIES AND PROJECT FEATURES WOULD RESULT IN THE LOSS OF 2,800 ACRES OF PRIME FARMLAND. GRASSLAND AND FORESTED ACREAGE. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOUR

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3996

The SALT NORM a quantitative chemical-mineralogical characterization of natural waters /M.W. Bodine, Jr. and Blair F. Jones. --.

Bodine, M. W. Jones, Blair F. Reston, Va. : U.S. Geological Survey, 1986 . Four illustrations on folded sheets in pocket. vi, 130 p. : ill. ; 28 cm. --. Bibliography: p. 48-52. (NAL Call No.: DNAL GB701.W375 no.86-4086).

3997

Sampling considerations in using stream insects for monitoring water quality.

Schwenneker, B.W. Hellenenthal, R.A. College Park, Md. : Entomological Society of America. Environmental entomology. June 1984. v. 13 (3). p. 741-750. Includes references. (NAL Call No.: QL461.E532).

3998

Sampling frequency for water quality monitoring: measures of effectiveness.

Casey, D.WRERA. Nemetz, P.N.; Uyeno, D.H. Washington : American Geophysical Union. Water resources research. Oct 1983. v. 19 (5). p. 1107-1110. Includes references. (NAL Call No.: 292.8 W295).

3999

Sampling strategies for evaluation solute leaching in a sandy soil.

Flaig, E.G. Bottcher, A.B.; Campbell, K.L. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1985 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, Summer 1985. (fiche no. 85-2029). 15 p. Includes references. (NAL Call No.: DNAL FICHE 290.9 AM32P). PAGES. (NAL Call No.: 82-0760F).

4000

SAN FRANCISCO RIVER WILD AND SCENIC RIVER STUDY REPORT, GREENLEE COUNTY, ARIZONA.

DEPARTMENT OF AGRICULTURE~ FOREST SERVICE. SPRINGVILLE, ARIZONA DEPARTMENT OF AGRICULTURE, FOREST SERVICE APRIL 1981 (EPA: SEPTEMBER 13, 1982). (PUR)INCLUSION IN THE NATIONAL WILD AND SCENIC RIVERS SYSTEM OF 29 MILES OF THE SAN FRANCISCO RIVER IN GREENLEE COUNTY, ARIZONA IS CONSIDERED AND REJECTED. THE SEGMENTS OF RIVER UNDER CONSIDERATION INCLUDE A 9-MILE SEGMENT FROM THE ARIZONA/NEW MEXICO STATE LINE TO HARDEN CIENEGA THAT COULD HAVE BEEN CLASSIFIED AS WILD RIVER, A 13-MILE SEGMENT FROM HARDEN CIENEGA TO THE BOUNDARY OF THE APACHE-SITGREAVES NATIONAL FORESTS THAT COULD HAVE BEEN CLASSIFIED AS RECREATIONAL RIVER, AND A 7-MILE SEGMENT FROM THE TOWN OF CLIFTON TO THE GILA RIVER THAT COULD HAVE BEEN CLASSIFIED AS RECREATIONAL RIVER. ORIGINALLY, ONLY THE 9-MILE SEGMENT OF POTENTIALLY WILD RIVER WAS PROPOSED FOR INCLUSION IN THE NATIONAL SYSTEM. THE NEWLY PROPOSED ACTION WOULD INVOLVE REJECTING ALL SEGMENTS OF THE RIVER AS CANDIDATES FOR INCLUSION IN THE NATIONAL SYSTEM AT THIS TIME. PRESENT MANAGEMENT POLICIES AND PROGRAMS ASSOCIATED WITH THE RIVER WOULD CONTINUE. FUTURE MANAGEMENT OF THE PORTION OF THE RIVER WITHIN THE NATIONAL FOREST WOULD BE DIRECTED AND CONTROLLED UNDER THE FOREST LAND MANAGEMENT PLAN TO BE FINALIZED IN 1982. PUBLIC LANDS WITHIN THE SEVEN-MILE SEGMENT, WHICH WAS CONSIDERED FOR INCLUSION IN THE NATIONAL SYSTEM AS A RECREATIONAL RIVER, WOULD BE MANAGED BY THE BUREAU OF LAND MANAGEMENT. (POS)REJECTION OF THE WILD AND SCENIC STATUS FOR THE RIVER WOULD ALLOW FOR CONSTRUCTION OF DAMS AND ROADS, EXTRACTION OF MINERALS, DEVELOPMENT OF GEOTHERMAL ENERGY, AND OTHER DEVELOPMENT ACTIVITIES IN THE RIVER CORRIDOR. (NEG)LEGISLATIVE PROTECTION OF THE SCENIC AND OTHER NATURAL VALUES OF THE RIVER WOULD BE FOREGONE. THE GENERAL APPEARANCE OF THE LANDSCAPE AND THE WATER QUALITY WITHIN THE RIVER CORRIDOR COULD BE SUBJECT TO DEGRADATION THROUGH DEVELOPMENT. THE FREE-FLOWING CHARACTER OF THE RIVER COULD BE LOST WITH THE CONSTRUCTION OF DAMS; ANY ADDITIONAL DIVERSIONS DURING IRRIGATION SEASON COULD CREATE PERIODS DURING WHICH THE RIVER HAD NO FLOW. (LEG)WILD AND SCENIC RIVERS ACT OF 1968 (16 U.S.C. 1271 ET SEQ.). USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE

STREET, SUITE 70 O, ARLINGTON, VA 22209. 152 (NAL Call No.: 82-0216D).

4001

SAN LUIS VALLEY PROJECT, COLORADO CLOSED BASIN DIVISION.

DEPARTMENT OF THE INTERIOR~ BUREAU OF RECLAMATION. AMARILLO, TEXAS DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION FEBRUARY 1982 (EPA: FEBRUARY 12, 1982). (PUR)PROVISIONS TO MITIGATE DAMAGE TO WETLANDS RESULTING FROM THE SAN LUIS VALLEY WATER RESOURCE PROJECT IN ALAMOSA AND SAGUACHE COUNTIES, COLORADO ARE PROPOSED. THIS SUPPLEMENT TO THE FINAL ENVIRONMENTAL IMPACT STATEMENT OF AUGUST 1979 CONCERNING THE IMPLEMENTATION OF THE WATER RESOURCES PROJECT ALSO PROVIDES INFORMATION ON CHANGES IN THE PROJECT DESIGN, RESULTS OF PUMP TESTS AND A VEGETATION MONITORING PROGRAM, WATERFOWL PRODUCTION AND OTHER BIRD USES IN THE AREA, AND EXTENSIVE CULTURAL RESOURCE INVESTIGATIONS. THE MULTIPURPOSE WATER PROJECT IS DESIGNED TO DELIVER PUMPED GROUNDWATER VIA PIPELINES AND A CANAL FROM THE UNCONFINED AQUIFER OF THE CLOSED BASIN TO THE RIO GRANDE. THE PROJECT WOULD HAVE AN INITIAL YIELD OF 66,000-104,000 ACRE-FEET, WITH 100,600 ACRE-FEET BEING A REASONABLE OBJECTIVE. IN COMPARISON TO THE ORIGINALLY PROPOSED PROJECT DESIGN, THE REVISED DESIGN WOULD ENCOMPASS 130,000 ACRES RATHER THAN 138,500 ACRES, INVOLVE USE OF 179 WELLS RATHER THAN 95-165 WELLS, AND REQUIRE MORE OVERHEAD AND LESS UNDERGROUND ELECTRICAL TRANSMISSION LINE. LAND REQUIREMENTS FOR THE PROJECT WOULD INVOLVE ACQUISITION OF 4,827 ACRES IN FEE AND ACQUISITION OF EASEMENTS ON 1,820 ACRES. THE 42-MILE CONVEYANCE CANAL WOULD BE ESSENTIALLY AS PROPOSED PREVIOUSLY, BUT THE ALIGNMENT WOULD BE MOVED 0.5 MILES TO THE EAST AS IT PASSES THROUGH THE ALAMOSA NATIONAL WILDLIFE RESERVE (NWR). A TOTAL OF 1,107 ACRE-FEET OF ARTESIAN WATER RIGHTS WOULD BE REQUIRED ANNUALLY FOR MITIGATION OF PROJECT EFFECTS. RATHER THAN USING 12,500 ACRE-FEET OF PROJECT WATER FOR DEVELOPMENT AND MANAGEMENT OF 5,000 ACRES OF WETLAND IN THE MISHAK NWR AS ORIGINALLY PROPOSED, 1,100 ACRES OF WETLAND WOULD BE DEVELOPED TO SUPPLEMENT THE 1,900 ACRES OF WETLAND IN THE 4,640-ACRE RUSSELL LAKES WILDLIFE MANAGEMENT AREA. DEVELOPMENT OF WETLANDS IN OTHER AREAS WOULD RESULT IN THE CREATION OF 8,460 ACRES OF WETLAND IN ALL. NUMEROUS OTHER MINOR MITIGATION MEASURES WOULD BE IMPLEMENTED. (POS)THE WATER DIVERSION SCHEME WOULD I. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 143 PAGES. 70 O, ARLINGTON, VA 22209. 221 PAGES. (NAL Call No.: 82-0769F).

(WATER RESOURCES AND MANAGEMENT)

4002

SAN LUIS VALLEY PROJECT, COLORADO, CLOSED BASIN DIVISION, ALAMOSA AND SAGUACHE COUNTIES (FINAL SUPPLEMENT TO FINAL EIS).

DEPARTMENT OF THE INTERIOR~ BUREAU OF RECLAMATION. AMARILLO, TEXAS DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION SEPTEMBER 1982 (EPA: SEPTEMBER 30, 1982). (PUR)PROVISIONS TO MITIGATE DAMAGE TO WETLANDS RESULTING FROM THE SAN LUIS VALLEY WATER RESOURCE PROJECT IN ALAMOSA AND SAGUACHE COUNTIES, COLORADO ARE PROPOSED. THIS SUPPLEMENT TO THE FINAL ENVIRONMENTAL IMPACT STATEMENT OF AUGUST 1979 CONCERNING THE IMPLEMENTATION OF THE WATER RESOURCES PROJECT ALSO PROVIDES INFORMATION ON CHANGES IN THE PROJECT DESIGN, RESULTS OF PUMP TESTS AND A VEGETATION MONITORING PROGRAM, WATERFOWL PRODUCTION AND OTHER BIRD USES IN THE AREA, AND EXTENSIVE CULTURAL RESOURCE INVESTIGATIONS. THE MULTIPURPOSE WATER PROJECT IS DESIGNED TO DELIVER PUMPED GROUNDWATER VIA PIPELINES AND A CANAL FROM THE UNCONFINED AQUIFER OF THE CLOSED BASIN TO THE RIO GRANDE. THE PROJECT WOULD HAVE AN INITIAL YIELD OF 66,000 TO 104,000 ACRE-FEET, WITH 100,600 ACRE-FEET BEING A REASONABLE OBJECTIVE. IN COMPARISON TO THE ORIGINALLY PROPOSED PROJECT DESIGN, THE REVISED DESIGN WOULD ENCOMPASS 130,000 ACRES RATHER THAN 138,500 ACRES, INVOLVE USE OF 175 WELLS RATHER THAN 95 TO 165 WELLS, AND REQUIRE MORE OVERHEAD AND LESS UNDERGROUND ELECTRICAL TRANSMISSION LINE. LAND REQUIREMENTS FOR THE PROJECT WOULD INVOLVE ACQUISITION OF 4,827 ACRES IN FEE AND ACQUISITION OF EASEMENTS ON 1,820 ACRES. THE 42-MILE CONVEYANCE CANAL WOULD BE ESSENTIALLY AS PROPOSED PREVIOUSLY, BUT THE ALIGNMENT WOULD BE MOVED 0.5 MILES TO THE EAST AS IT PASSES THROUGH THE ALAMOSA NATIONAL WILDLIFE RESERVE (NWR). A TOTAL OF 1,107 ACRE-FEET OF ARTESIAN WATER RIGHTS WOULD BE REQUIRED ANNUALLY FOR MITIGATION OF PROJECT EFFECTS. RATHER THAN USING 12,500 ACRE-FEET OF PROJECT WATER FOR DEVELOPMENT AND MANAGEMENT OF 5,000 ACRES OF WETLAND IN THE MISHAK NWR AS ORIGINALLY PROPOSED, 1,100 ACRES OF WETLAND WOULD BE DEVELOPED TO SUPPLEMENT THE 1,900 ACRES OF WETLAND IN THE 4,640-ACRE RUSSELL LAKES WILDLIFE MANAGEMENT AREA. DEVELOPMENT OF WETLANDS IN OTHER AREAS WOULD RESULT IN THE CREATION OF 8,460 ACRES OF WETLAND IN ALL. NUMEROUS OTHER MINOR MITIGATION MEASURES WOULD BE IMPLEMENTED. (POS)THE WATER DIVERSION SCHEME W. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE

4003

Sand plains groundwater quality study, Hubbard, Morrison, Otter Tail, and Wadena Counties, Minnesota /U.S. Department of Agriculture, Soil Conservation Service. --.

United States.~Soil Conservation Service. Lincoln, Neb. : The Service, 1980.
"5,R-38,072."~ "Source: Recent data USGS 1:250,000 quadrangles and information from SCS field personnel."~ Includes location map. 1 map : col. ; 27 x 32 cm., on sheet 49 x 64 cm. (NAL Call No.: DNAL aG4141.C34 1980 .U5 Map).

4004

Sanitary quality of the Jordan River in Salt Lake County, Utah /by Kendall R. Thompson ; prepared in cooperation with the Salt Lake County Division of Flood Control and Water Quality. --.

Thompson, Kendall R. Salt Lake City, Utah : U.S. Geological Survey, 1984. 29 leaves, 13 leaves of plates : ill., map ; 28 cm. --.
Bibliography: leaves 28-29. (NAL Call No.: DNAL GB701.W375 no.83-4252).. (NAL Call No.: 81-1060F).

4005

SANS BOIS WATERSHED, HASKELL, LATIMER, AND PITTSBURG COUNTIES, OKLAHOMA.

HASKELL COUNTY CONSERVATION DISTRICT. STILLWATER, OKLAHOMA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE OCTOBER 1980 (EPA: OCTOBER 28, 1981). (PUR)IMPLEMENTATION OF CONSERVATION LAND-TREATMENT AND STRUCTURAL MEASURES TO CONTROL EROSION, SEDIMENTATION, AND AGRICULTURAL AND URBAN FLOODING WITHIN THE 205,000-ACRE SANS BOIS CREEK WATERSHED IN PITTSBURG, LATIMER, AND HASKELL COUNTIES, OKLAHOMA IS PROPOSED. THE STRUCTURAL MEASURES WOULD CONSIST OF 12 FLOODWATER-RETARDING STRUCTURES, 5,600 FEET OF 8-FOOT-HIGH DIKE, AND ASSOCIATED FISH AND WILDLIFE MITIGATION MEASURES. THE FLOODWATER-RETARDING STRUCTURES WOULD BE EARTHFILL EMBANKMENTS WITH DROP INLET SPILLWAYS. IN ADDITION TO FLOOD CONTROL, THE STRUCTURES WOULD HAVE STORAGE CAPACITIES TO STORE 100 YEARS OF SEDIMENT ACCUMULATION. THE DIKE WOULD BE SITUATED ADJACENT TO THE TOWN OF KINTA BETWEEN KINTA AND BEAVER CREEK. A SYSTEM OF CULVERTS WITH FLAP GATES WOULD ALLOW DRAINAGE ABOVE THE DIKE. WILDLIFE MITIGATION MEASURES WOULD INVOLVE PLANTING OF 127 ACRES OF TREES, SHRUBS, AND OTHER VEGETATION. IN ADDITION, AREAS OF NATURAL VEGETATION COULD BE DESIGNATED AS MITIGATION AREAS, POSSIBLY REQUIRING THINNING, REMOVAL OF SOME SPECIES, OR PLANTING OF OTHER SPECIES. ALL MITIGATION AREAS WOULD BE FENCED TO RESTRICT GRAZING. THE FLOODWATER-RETARDING STRUCTURE ON CAMP CREEK WOULD BE CONSTRUCTED TO STORE 124 ACRE-FEET OF WATER FOR THE MAINTENANCE OF STREAM FLOW BELOW THE STRUCTURE. CONSERVATION LAND-TREATMENT MEASURES TO BE IMPLEMENTED WOULD CONSTITUTE A CONTINUATION OF THE CURRENT PLAN. ESTIMATED INSTALLATION COST OF ALL STRUCTURAL MEASURES IS \$7.36 MILLION, AND THE BENEFIT-COST RATIO IS ESTIMATED AT 1.3. (POS)THE PROJECT WOULD PROTECT THE TOWN OF KINTA FROM FLOOD FLOWS AND REDUCE THE ANNUAL CUMULATIVE AREA FLOODED WITHIN THE WATERSHED BY 10,044 ACRES. THE AREA FLOODED BY STORMS OF AN INTENSITY EXPECTED TO OCCUR TWICE A YEAR WOULD BE REDUCED BY 2,821 ACRES. COSTS TO COAL MINING OPERATIONS FOR MAINTENANCE OF DIKES WOULD BE REDUCED. APPROXIMATELY 1,343 ACRES WOULD BE PROTECTED FROM FURTHER SEDIMENT DAMAGE, AND 572 ACRES OF CURRENTLY DAMAGED LAND WOULD BE RENDERED RECOVERABLE WITH. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 82 PAGES

4006

The SARRMC (Southern Appalachian Research/Resource Management Cooperative) streams workshop: an introduction (Water quality management, environmental planning).
 Eller, J.G. Asheville, N.C. (Box 2570, Asheville 28802) : Southeastern Forest Experiment Station, (1980?). Proceedings streams workshop : November 13-14, 1979, Asheville, N.C. / SARRMC Team for Research Evaluation and Management of Streams. p. 1-6. ill. 3 ref. (NAL Call No.: TC401.S7 1979).

4007

Saving wetlands: an urgent task.
 Manson, J.J. Washington, D.C. : Office of Public Awareness. EPA Environmental Protection Agency journal. Jan/Feb 1986. v. 12 (1). p. 2. (NAL Call No.: DNAL TD171.U5).

4008

Scale economies in rural water supply systems and water quality standards of the U.S. Environmental Protection Agency.
 Vaidya, R. Allee, D.J. Ithaca, N.Y. : The Station. Extract: The general purpose of this study was to explore ways of improving the quality of rural water without adding to its cost. In specific the study examined a number of rural community systems in operation to discover (1) whether the average cost of producing water tended to be less for large systems, (2) whether such scale effects were large enough to mitigate the scale diseconomies likely to occur because of decreasing customer density as service areas expand, and (3) whether sufficient margin will remain for improving the quality of the water produced without escalating the cost. A.E. Res. - New York State College of Agriculture and Life Sciences, Department of Agricultural Economics, Cornell University, Agricultural Experiment Station. Apr 1982. Apr 1982. (82-25). 61 p. Includes 14 references. (NAL Call No.: 281.9 C81A).

4009

Scope and magnitude of soil erosion and water quality problems in the Southeast (US).
 Unger, D.G. Muscle Shoals, Ala. : National Fertilizer Development Center, Tennessee Valley Authority, 1981. Southeastern soil erosion control and water quality workshop : November 19-21, 1980, Nashville, Tennessee. p. 4-8. ill. (NAL Call No.: S624.A13S6 1980).

4010

A screening methodology for basinwide water quality management.
 Dean, J.D. Mills, W.B.; Porcella, D.B. Minneapolis, Minn. (Mississippi River at 3rd Ave., S.E., Minneapolis 55414) : AWRA, c1981. Unified river basin management : proceedings of a symposium held in Gatlinburg, Tenn., May 4-7, 1980 / ed. by R.M. North, L.B. Dworsky, D.J. Allee ; spon. American Water Resources Assn. and Tennessee Valley Authority. p. 507-526. ill., map. 2 p. ref. (NAL Call No.: TC423.U44).

4011

Screening studies for mutagenic effects of selected Louisiana potable water supplies.
 Abdelghani, A.A. PUMTA. Lockwood, M.P.; Jaqhabir, M.; Al-Sekait, M.; Anderson, A.C. Columbia : The Conference. Trace substances in environmental health : proceedings of University of Missouri's ... annual conference. 1982. 1982. (16). p. 347-354. maps. Includes references. (NAL Call No.: RA422.C65).

4012

Seasonal variation of arsenic concentration in well water in Lane County, Oregon.
 Nadakavukaren, J.J. Ingermann, R.L.; Jeddeloh, G.; Falkowski, S.J. New York, N.Y. : Springer-Verlag. Bulletin of environmental contamination and toxicology. Sept 1984. v. 33 (3). p. 264-269. ill. Includes references. (NAL Call No.: RA1270.P35A1).

4013

'Second best' effluent fees in water quality management: problems of achieving efficiency.
 Revesz, R.L. Marks, D.H. Washington, D.C., American Geophysical Union. Water resources research. Aug 1982. v. 18 (4). p. 717-720. 17 ref. (NAL Call No.: 292.8 W295).

4014

Second derivate ultraviolet spectroscopy and sulfamic acid method for determination of nitrates in water.
 JANCA2. Simal, J. Lage, M.A.; Iglesias, I. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Sept/Oct 1985. v. 68 (5). p. 962-964. Includes 14 references. (NAL Call No.: DNAL 381 AS7).

(WATER RESOURCES AND MANAGEMENT)

4015

Second International Conference on Ground Water Quality Research proceedings /edited by Norman N. Durham and Ann E. Redelfs. --.

Durham, Norman N.; Redelfs, Ann E. Stillwater, Okla. : University Printing Services, 1985 .

Sponsored by the National Center for Ground Water Research. vii, 222 p. : ill., maps ; 29 cm. Includes bibliographies and index. (NAL Call No.: DNAL TD426.I5 1984).

4016

Sedcon: a model of nutrient and heavy metal losses in suspended sediment.

Gabbert, W.A. Ffolliott, P.F.; Rasmussen, W.O. Tucson : American Water Resources Association. Hydrology and water resources in Arizona and the Southwest. Apr 24, 1982. v. 12. p. 111-116. maps. Includes references. (NAL Call No.: DNAL GB705.A6H9).

4017

SEDCON: a model of nutrient and heavy metal losses in suspended sediment (Computer simulation models, forested watersheds of the southwestern United States).

Gabbert, W.A. Ffolliott, P.F.; Rasmusen, W.O. Tucson : American Water Resources Association. Hydrology and water resources in Arizona and the Southwest. 1982. v. 12. p. 111-116. maps. Includes references. (NAL Call No.: GB705.A6H9).

4018

Sediment and nutrient discharge through streamflow from two experimental watersheds in mature oak-beech forest ecosystems near Istanbul, Turkey.

JHYDA. Balci, A.N. Ozyuvaci, N.; Ozhan, S. Amsterdam : Elsevier Scientific Publishers, B.V. Journal of hydrology. June 15, 1986. v. 85 (1/2). p. 31-47. ill., maps. Includes references. (NAL Call No.: DNAL 292.8 J82).

4019

Sediment and water quality.

Melvin, S. W. Amemiya, Minoru.; Herman, J. Clayton. & Iowa agriculture and water quality. 1980. This publication discusses the sediment problem associated with Iowa's landscape. Topics include erosion and sedimentation process, chemical effects of sediment on water quality, practices to control erosion, and Iowa's erosion law. Document available from: Iowa State Univ., Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011. 4 p. : ill. (NAL Call No.: Not available at NAL.). (NAL Call No.: Pm-901f).

4020

Sediment and water quality : a review of the literature including a suggested approach for water quality criteria / by Robert N. Iwamoto ... (et al.) ; with summary of workshop and conclusions and recommendations by Ernest O. Salo, Robert L. Rulifson. --.

Iwamoto, Robert N. Seattle Environmental Protection Agency, Region 10 1978. "EPA 910/9/78-048 ~"Contract no. WY-6-99-0825-J. ~Similar issue cataloged under: 157.8 R29 no. 279469. 1 v. (various pagings) ; 28 cm. Includes bibliographies. (NAL Call No.: TC175.2.S38).

4021

Sediment characteristics of small streams in southern Wisconsin, 1954-59 / by Charles R. Collier ; prepared in cooperation with the Wisconsin Conservation Department through the Wisconsin Committee on Water Pollution. --.

Collier, Charles R. Washington, D.C. U.S. G.P.O. 1963. iv, 34 p. : ill., map ; 23 cm. --. Bibliography: p. 34. (NAL Call No.: 407 G29W no.1669-B).

4022

Sediment chemistry as influenced by vegetation and bedrock in the southwestern United States (Water quality).

White, C.S. WARBA. Gosz, J.R. Minneapolis : American Water Resources Association. Water resources bulletin. Oct 1983. v. 19 (5). p. 829-835. Includes references. (NAL Call No.: 292.9 AM34).

4023

Sediment deposits in drainage ditches: a cropland externality.

JSWCA3. Forster, D.L. Abraham, G. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. Includes statistical data. Jan/Feb 1985. v. 40 (1). p. 141-143. Includes 8 references. (NAL Call No.: DNAL 56.8 J822).

4024

Sediment losses from forest management: mechanical vs. chemical site preparation after clearcutting.

JEVQAA. Beasley, R.S. Granillo, A.B.; Zillmer, V. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1986. v. 15 (4). p. 413-416. Includes references. (NAL Call No.: DNAL QH540.J6).

4025

Sediment oxygen demand and its effect on dissolved oxygen in a cutoff meander of the Kaskaskia River / by B.J. Mathis and Thomas A. Butts. -.

Mathis, B. J. Butts, Thomas A. Urbana, Ill. University of Illinois, Water Resources Center 1981. Final report project no. S-072-ILL. v, 62 p. : ill., map ; 28 cm. --. Bibliography: p. 36-40. (NAL Call No.: TC424.I3I4 no. 162).

4026

Sediment sampling in six Western lakes / Merrill Heit, John C. Burke. -.

Heit, Merrill. Burke, John C. (Woods Hole, Mass. Woods Hole Oceanographic Institution Springfield, Va. available from N.T.I.S. 1976). "COO-3568-16. ~"DOE-EV/03568-16. ~"HASL 315. ~"USERDA environmental quarterly report. ~"Jan. 1, 1977.". 83-91 leaves ; 28 cm. Bibliography: leaves 90-91. (NAL Call No.: TD427.T7H4).

4027

Sediment transport, water quality and changing bed conditions, Tucannon River, Southeastern Washington / prepared for USDA Soil Conservation Service, Spokane, Washington. -.

Hecht, Barry. & Tucannon River water quality and aquatic habitat study. Spokane, Wash. The Service 1982. Title on added t.p.: Tucannon River water quality and aquatic habitat study / project staff Barry Hecht ... (et al.). viii, 185, (42) p. : ill., maps (1 folded) ; 28 cm. Bibliography: p. 183-185. (NAL Call No.: aTC425.T8S4).

4028

Sedimentation and chemical quality of surface water in the Heart River drainage basin, North Dakota / by M.L. Maderak. -.

Maderak, M. L. (Marion L.). Washington, D.C. U.S. G.P.O. 1966. One folded map in pocket. v, 42 p. : ill., maps ; 24 cm. --. Bibliography: p. 41-42. (NAL Call No.: 407 G29W no.1823).

4029

Sedimentation and chemical quality of surface waters in the Wind River basin, Wyoming / by B.R. Colby, C.H. Hembree and F.H. Rainwater. -.

Colby, Bruce R. 1908-. Hembree, C. H. 1915-; Rainwater, F. H. 1921-. Washington, D.C. : U.S. G.P.O., 1956. Eleven folded leaves in pocket. ~ "Prepared as part of a program of the Department of the Interior for Development of the Missouri River basin." ~ Includes index. x, 336 p. : ill., maps ; 24 cm. --. Bibliography: p. 166-169. (NAL Call No.: DNAL 407 G29W no.1373).

4030

Sedimentation and chemical quality of water in Salt Creek basin, Nebraska / by L.R. Kister and J.C. Mundorff ; prepared as part of a program of the Department of the Interior for development of the Missouri River basin. --.

Kister, L. R. 1923-. Washington, D.C. : U.S. G.P.O., 1963. vi, 47 p. : ill., maps ; 24 cm. --. Bibliography: p. 47. (NAL Call No.: DNAL 407 G29W no.1669-H).

4031

Select your water source.

WEFGA. Solomon, K. Zoldoske, D. Willoughby, Ohio : Meister Pub. Co. Western fruit grower. Mar 1987. v. 107 (3). p. 41-43. ill. (NAL Call No.: DNAL 80 G85W).

4032

Selected papers on water quality and pollution in New Mexico proceedings of a Symposium on Water Quality and Pollution in New Mexico, April 12, 1984, Socorro, NM / compiled by William J. Stone ; sponsored by Water Pollution Control Bureau, New Mexico Environmental Improvement Division ... et al. . --.

Stone, William J. 1941-. Socorro : New Mexico Bureau of Mines & Mineral Resources, 1984. Errata sheet inserted. vi, 300 p. : ill. ; 28 cm. --. Includes bibliographies. (NAL Call No.: DNAL TD224.N6S9 1984).

4033

Selenium in waters in and adjacent to the Kendrick project, Natrona County, Wyoming / by Marvin A. Crist ; prepared in cooperation with the Wyoming State Engineer ... et al. . --.

Crist, Marvin A., 1930-. Washington, D.C. : U.S. G.P.O., 1974. Three folded leaves in pocket. iv, 39 p. : ill., maps ; 24 cm. --. Bibliography: p. 38-39. (NAL Call No.: DNAL 407 G29W no.2023).

4034

Seminar on Water Quality in the Tidal Potomac River, December 1978 / compiled by James P. Bennett. -.

Bennett, James P. Reston, Va. U.S. Geological Survey 1979. Cover title. 21 p. ; 28 cm. --. Includes bibliographies. (NAL Call No.: TD365.S42 1978).

(WATER RESOURCES AND MANAGEMENT)

4035

Sensitivity analysis for steady state groundwater flow using adjoint operators.

WRERA. Sykes, J.F. Wilson, J.L.; Andrews, R.W. Washington, D.C. : American Geophysical Union. Water resources research. Mar 1985. v. 21 (3). p. 359-371. maps. Includes references. (NAL Call No.: DNAL 292.8 W295).

4036

Sensitivity of rainfall excess to antecedent soil moisture and soil hydraulic properties / by Harold A. Wilkening. --.

Wilkening, Harold A. (Harold Arthur), 1957-. Houston, Tex. Lyndon B. Johnson Space Center, NASA Springfield, Va. for sale by Clearinghouse for Federal Scientific and Technical Information 1982. AgRISTARS (Agriculture and Resources Inventory Surveys Through Aerospace Remote Sensing) is a joint program of the U.S. Dept. of Agriculture, the National Aeronautics and Space Administration, the National Oceanic and Atmospheric Administration, the Agency for International Development, and the U.S. Dept. of the Interior ~Conservation and pollution CP-52-04373 ~"October 1982. ~Sponsored by USDA, ARS, Beltsville, Md. x, 169 p. : ill. ; 28 cm. Bibliography: p. 129-133. (NAL Call No.: S594.W5).

4037

Sensitivity of stream basins in Shenandoah National Park to acid deposition /by Dennis D. Lynch and Nancy B. Dise ; prepared in cooperation with University of Virginia, Department of Environmental Sciences. --.

Lynch, Dennis D. Dise, Nancy B. Richmond, Va. : U.S. Dept. of the Interior, Geological Survey ; Denver, Colo. : Open-File Services Section, Western Distribution Branch, U.S. Geological Survey distributor, 1985. vi, 61 p. : ill., maps ; 28 cm. --. Bibliography: p. 56-61. (NAL Call No.: DNAL GB701.W375 no.85-4115).

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TURKEY-CLAY CREEK WATERSHED PLAN, SOUTH DAKOTA. CLAY COUNTY CONSERVATION DISTRICT. HURON, SOUTH DAKOTA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE JANUARY 1983 (EPA: FEBRUARY 2, 1983). (PUR)IMPLEMENTATION OF A WATERSHED PROTECTION AND FLOOD PREVENTION PROJECT WITHIN THE 252-SQUARE-MILE TURKEY-CLAY CREEK WATERSHED IN CLAY, HUTCHINSON, TURNER, AND YANKTON COUNTIES IN SOUTHEASTERN SOUTH DAKOTA IS PROPOSED. THE PROJECT WOULD INCLUDE MODIFICATION OF 10.2 MILES OF MAIN CHANNEL AND 55.3 MILES OF LATERALS, CONSTRUCTION OF 9 FLOODWATER-RETARDING DAMS, AND EXCAVATION OF 9 SEDIMENT BASINS. FLOODWATER RETARDING DAMS WOULD BE PLACED SO AS TO CONTROL RUNOFF FROM 116.5 SQUARE MILES OF LAND WITHIN THE WATERSHED. ALL STRUCTURES WOULD BE ROLLED EARTH EMBANKMENTS WITH HEIGHTS RANGING FROM 31 TO 56 FEET, AND EACH STRUCTURE WOULD HAVE AN EXPECTED DESIGN LIFE OF 100 YEARS. PRINCIPAL SPILLWAY INLETS WOULD BE REINFORCED CONCRETE. THE CAPACITY OF MODIFIED MAIN CHANNEL WOULD ALLOW REMOVAL OF THE ONE-YEAR FREQUENCY STORM RUNOFF WITHIN A 24-HOUR PERIOD. MITIGATION OF WILDLIFE LOSSES RESULTING FROM PROJECT ACTIVITIES WOULD INVOLVE ACQUISITION AND MANAGEMENT OF 126 ACRES OF HERBACEOUS AND 23 ACRES OF WOODY HABITAT. DEVELOPMENT ON THESE TRACTS WOULD INCLUDE THE ESTABLISHMENT OF 21 ACRES OF HERBACEOUS HABITAT AND 34 ACRES OF WOODY HABITAT. ESTIMATED COST OF THE PROJECT, WHICH WOULD BE IMPLEMENTED OVER A 10-YEAR PERIOD, IS \$10.3 MILLION, AND THE BENEFIT-COST RATIO IS ESTIMATED AT 1.5. (POS)WITH PROJECT MEASURES IN PLACE, FLOOD DAMAGES WOULD BE REDUCED BY 72 PERCENT AND SEDIMENT LEAVING THE WATERSHED VIA THE VERMILLION RIVER WOULD BE REDUCED BY 50 PERCENT. SEDIMENT REDUCTION WOULD IMPROVE FISH AND WILDLIFE HABITAT AND REDUCE THE MAINTENANCE NEEDED FOR CHANNELS, LATERALS, BRIDGES, DITCHES, AND CULVERTS. AN ESTIMATED 17,800 ACRES SERVED BY THE LATERALS WOULD BENEFIT FROM INSTALLATION OF ON-FARM DRAINAGE STRUCTURES. APPROXIMATELY 560 ACRES OF PRIME FARMLAND WOULD BE ADDED TO THE WATERSHED AS A RESULT OF FLOOD REDUCTION AND IMPROVED DRAINAGE. WET SEDIMENT POOLS WOULD PROVIDE 88 SURFACE ACRES OF WATER AT 14 LOCATIONS. (NEG)INSTALLATION OF DAMS AND CHANNEL MODIFICATION WOULD RESULT IN A. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 147 PAGES. (NAL.: 83-0274F).11 No.: 83-0039D).11 No.: 83-0039D).

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TWIN-RUSH CREEK WATERSHED, WASHINGTON COUNTY, INDIANA.

CITY OF SALEM, OREGON. INDIANAPOLIS, INDIANA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE APRIL 1983 (EPA: APRIL 15, 1983). (PUR)IMPLEMENTATION OF A FLOOD CONTROL AND LAND MANAGEMENT PLAN FOR THE 28,099-ACRE TWIN-RUSH CREEK WATERSHED OF WASHINGTON COUNTY, INDIANA IS PROPOSED. THE WATERSHED, WHICH LIES IN SOUTHEASTERN INDIANA APPROXIMATELY SIX MILES NORTHWEST OF SALEM, CONTAINS, 6,570 ACRES OF CROPLAND, 5,464 ACRES OF GRASSLAND, 14,679

ACRES OF FOREST, AND 1,386 ACRES OF OTHER LAND. THE PLAN WOULD INCLUDE EXCAVATION OF 7.2 MILES OF SINGLE-PURPOSE FLOOD PREVENTION CHANNEL AND IMPLEMENTATION OF ACCELERATED LAND TREATMENT MEASURES. CHANNEL EXCAVATION WOULD OCCUR IN LOW-PLASTICITY SILTS AND CLAYS, REQUIRING ARMORING OF THE CHANNEL BOTTOM AND BANKS TO ENSURE STABILITY. ALL DETERIORATED OR DAMAGED OUTLET STRUCTURES AND SUBSURFACE DRAINS WOULD BE REPAIRED OR REPLACED. EXCAVATION WOULD REQUIRE ACQUISITION OF PERMANENT EASEMENTS ON 157 ACRES AND TEMPORARY EASEMENTS ON 130 ACRES. SEDIMENT TRAPS WOULD BE INSTALLED ALONG THE CHANNELS AT INTERVALS OF NO GREATER THAN ONE MILE. FENCING WOULD BE INSTALLED AT THE EDGE OF THE BUFFER STRIP WHERE LIVESTOCK DAMAGE TO THE CHANNEL AND BUFFER AREAS COULD OCCUR. TO MITIGATE DAMAGE TO WILDLIFE HABITAT AND SENSITIVE AREAS, THE PROJECT WOULD INCLUDE A MITIGATION PLAN THAT WOULD INVOLVE ESTABLISHMENT OF 38 ACRES OF WOODY VEGETATION ALONG THE CHANNEL AND ESTABLISHMENT OF 32 ACRES OF GRASSES AND LEGUMES ON THE CHANNEL MAINTENANCE TRAVELWAY AND INSIDE SLOPE OF THE SPOIL AREA. IN ADDITION, 48 ACRES OF EXISTING VEGETATION AND ASSOCIATED HABITAT WOULD BE PROTECTED BY EASEMENTS, AND A DAM WOULD BE CONSTRUCTED TO CREATE A 600-FOOT IMPOUNDMENT TO MITIGATE THE LOSS OF WETLAND. ELEVEN CUTOFF OXBOWS WOULD HAVE PROVISIONS FOR DIVERTING SOME FLOWAGE TO PROVIDE REFUGE FOR FISH AND WILDLIFE DURING STORM FLOWS. ADDITIONAL MINOR MITIGATION MEASURES WOULD BE INCORPORATED INTO THE PROJECT. ESTIMATED COST OF THE PROJECT IS \$11.2 MILLION. (POS) APPROXIMATELY 1,524 ACRES, FLOODED DURING A 50-YEAR FREQUENCY FLOOD, WOULD BENEFIT FROM REDUCED FLOODING. FOR A TWO-YEAR FREQUENCY FLOOD, APPROXIMATE. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 67 PAGES. (NAL Call No

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TWIN-RUSH CREEK WATERSHED, WASHINGTON COUNTY, INDIANA.

CITY OF SALEM, OREGON. INDIANAPOLIS, INDIANA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE NOVEMBER 1982 (EPA: DECEMBER 1, 1982). (PUR) IMPLEMENTATION OF A FLOOD-CONTROL AND LAND-MANAGEMENT PLAN FOR THE 28,099-ACRE TWIN-RUSH CREEK WATERSHED OF WASHINGTON COUNTY, INDIANA IS PROPOSED. THE WATERSHED, WHICH LIES IN SOUTHEASTERN INDIANA APPROXIMATELY SIX MILES NORTHWEST OF SALEM, CONTAINS 6,570 ACRES OF CROPLAND, 5,464 ACRES OF GRASSLAND, 14,679 ACRES OF FOREST, AND 1,386 ACRES OF OTHER LAND. THE PLAN WOULD INCLUDE EXCAVATION OF 7.2 MILES OF SINGLE-PURPOSE FLOOD PREVENTION CHANNEL AND IMPLEMENTATION OF ACCELERATED LAND-TREATMENT MEASURES. CHANNEL EXCAVATION WOULD OCCUR IN LOW-PLASTICITY SILTS AND CLAYS, REQUIRING ARMORING OF THE CHANNEL BOTTOM AND BANKS TO ENSURE STABILITY. ALL DETERIORATED OR DAMAGED OUTLET STRUCTURES AND SUBSURFACE DRAINS WOULD BE REPAIRED OR REPLACED. EXCAVATION WOULD REQUIRE ACQUISITION OF PERMANENT EASEMENTS ON 157 ACRES AND TEMPORARY EASEMENTS ON 130 ACRES. SEDIMENT TRAPS WOULD BE INSTALLED ALONG THE CHANNELS AT INTERVALS OF NO GREATER THAN ONE MILE. FENCING WOULD BE INSTALLED AT THE EDGE OF

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CITY OF SALEM, OREGON. INDIANAPOLIS, INDIANA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE NOVEMBER 1982 (EPA: DECEMBER 1, 1982). (PUR) IMPLEMENTATION OF A FLOOD-CONTROL AND LAND-MANAGEMENT PLAN FOR THE 28,099-ACRE TWIN-RUSH CREEK WATERSHED OF WASHINGTON COUNTY, INDIANA IS PROPOSED. THE WATERSHED, WHICH LIES IN SOUTHEASTERN INDIANA APPROXIMATELY SIX MILES NORTHWEST OF SALEM, CONTAINS 6,570 ACRES OF CROPLAND, 5,464 ACRES OF GRASSLAND, 14,679 ACRES OF FOREST, AND 1,386 ACRES OF OTHER LAND. THE PLAN WOULD INCLUDE EXCAVATION OF 7.2 MILES OF SINGLE-PURPOSE FLOOD PREVENTION CHANNEL AND IMPLEMENTATION OF ACCELERATED LAND-TREATMENT MEASURES. CHANNEL EXCAVATION WOULD OCCUR IN LOW-PLASTICITY SILTS AND CLAYS, REQUIRING ARMORING OF THE CHANNEL BOTTOM AND BANKS TO ENSURE STABILITY. ALL DETERIORATED OR DAMAGED OUTLET STRUCTURES AND SUBSURFACE DRAINS WOULD BE REPAIRED OR REPLACED. EXCAVATION WOULD REQUIRE ACQUISITION OF PERMANENT EASEMENTS ON 157 ACRES AND TEMPORARY EASEMENTS ON 130 ACRES. SEDIMENT TRAPS WOULD BE INSTALLED ALONG THE CHANNELS AT INTERVALS OF NO GREATER THAN ONE MILE. FENCING WOULD BE INSTALLED AT THE EDGE OF THE BUFFER STRIP WHERE LIVESTOCK DAMAGE TO THE CHANNEL AND BUFFER AREAS COULD OCCUR. TO MITIGATE DAMAGE TO WILDLIFE HABITAT AND SENSITIVE AREAS, THE PROJECT WOULD INCLUDE A MITIGATION PLAN THAT WOULD INVOLVE ESTABLISHMENT OF 38 ACRES OF WOODY VEGETATION ALONG THE CHANNEL AND ESTABLISHMENT OF 32 ACRES OF GRASSES AND LEGUMES ON THE CHANNEL MAINTENANCE TRAVELWAY AND INSIDE SLOPE OF THE SPOIL AREA. IN ADDITION, 48 ACRES OF EXISTING VEGETATION AND ASSOCIATED HABITAT WOULD BE PROTECTED BY EASEMENTS, AND A DAM WOULD BE CONSTRUCTED TO CREATE A 600-FOOT IMPOUNDMENT TO MITIGATE THE LOSS OF WETLAND. ELEVEN CUTOFF OXBOWS WOULD HAVE PROVISIONS FOR DIVERTING SOME

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FLOWAGE TO PROVIDE REFUGE FOR FISH AND WILDLIFE DURING STORM FLOWS. ADDITIONAL MINOR MITIGATION MEASURES WOULD BE INCORPORATED INTO THE PROJECT. ESTIMATED COST OF THE PROJECT IS \$11.2 MILLION. (POS) APPROXIMATELY 1,524 ACRES, FLOODED DURING A 50-YEAR FREQUENCY FLOOD, WOULD BENEFIT FROM REDUCED FLOODING. FOR A TWO-YEAR FREQUENCY FLOOD, APPROXIMATE. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 47 PAGES. (NAL Ca

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A two-constituent solute-transport model for ground water having variable density /by Ward E. Sanford and Leonard F. Konikow. --. Sanford, Ward E. Konikow, Leonard F. Reston, Va.? : U.S. Dept. of the Interior, Geological Survey ; Denver, Colo. : Open-File Services Section, Western Distribution Branch, U.S. Geological Survey, 1985. v, 88 p. : ill. ; 28 cm. --. Bibliography: p. 23-24. (NAL Call No.: DNAL GB701.W375 no.85-4279).

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U.S./Canada aquatic impacts assessment: integration of experimental studies, monitoring and modeling of acidic deposition effects. Loucks, D.L. Glass, G.E. Boston : Butterworth Publishers, c1984. Modeling of total acid precipitation impacts / edited by Jerald L. Schnoor. Paper presented at the "Symposium on Acid Precipitation" as part of the annual meeting of the American Chemical Society, March 1982, Las Vegas, Nevada. ~ Literature review. p. 205-217. maps. Includes 30 references. (NAL Call No.: DNAL TD196.A25M62).

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U.S. forestry and water quality : what course in the 80's? : an analysis of environmental and economic issues : proceedings, Richmond, Virginia, June 19-20, 1980 / sponsored by the Water Pollution Control Federation, Virginia Water Pollution Control Association in conjunction with Virginia Forestry Association. -. Washington, D.C. Water Pollution Control Federation (1980?). Cover title ~"The second decade.". iii, 208 p. : ill. ; 28 cm. Includes bibliographical references. (NAL Call No.: TD419.5.U76).

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Ultraviolet disinfection of water supplies. Atherton, H.V. Baker, D.; Benedetti, P.; Carroway, E.; Miller, G.; Ronald, G.W.; Ryan, I.M.; Seaman, K. Ames, Iowa : International Association of Milk, Food and Environmental Sanitarians, Inc. Dairy and food sanitation. June 1985. v. 5 (6). p. 209-210. (NAL Call No.: DNAL SF221.D342).

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An un-reserved judgment (Water pollution, Lake Superior, asbestos fibers). Lind, A.E. San Francisco, Sierra Club Books. Who's poisoning America : corporate polluters and their victims in the chemical age. 1981. 1981. p. 206-239. Includes ref. (NAL Call No.: RA566.3.W48).

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Uncertainty and dynamic policies for the control of nutrient inputs to lakes (Sewage and runoff from agricultural land). Fisher, I.H. New York : Springer, c1983. Uncertainty and forecasting of water quality / editors, M.B. Beck and G. van Straten. p. 357-370. ill. Includes references. (NAL Call No.: TD370.U44).

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Unsteady water quality model for river network (Jacui Delta, Brazil). Tucci, C.E.M. Chen, Y.H. New York, American Society of Civil Engineers. Journal of the Water Resources Planning and Management Division - American Society of Civil Engineers. Water Resources Planning and Management Division. Oct 1981. v. 107 (WR2). p. 477-493. ill. 10 ref. (NAL Call No.: TC401.A45).

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Unweathered and weathered aviation kerosine: chemical characterization and effects on hatching success of duck eggs (Mallards). Albers, P.H. Gay, M.L. New York, Springer. Bulletin of environmental contamination and toxicology. Apr 1982. v. 28 (4). p. 430-434. Includes 1 p. ref. (NAL Call No.: RA1270.P35A1).(NAL Call No.: 82-0271F).

4233

UPPER BIG BLUE RIVER WATERSHED, HENRY AND RUSH COUNTIES, INDIANA. BIG BLUE RIVER CONSERVANCY DISTRICT. INDIANAPOLIS, INDIANA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE NOVEMBER 1981 (EPA: FEBRUARY 24, 1982). (PUR)CONSTRUCTION OF TWO FLOODWATER-RETARDING

STRUCTURES, IMPLEMENTATION OF 24.5 MILES OF CHANNEL WORK, AND INSTALLATION OF CONSERVATION LAND-TREATMENT MEASURES ON 22,380 ACRES OF LAND WITHIN THE 124,000-ACRE UPPER BIG BLUE RIVER WATERSHED IN HENRY AND RUSH COUNTIES, INDIANA ARE PROPOSED TO PROVIDE FLOOD CONTROL AND WATERSHED PROTECTION. LAND-TREATMENT MEASURES WOULD BE APPLIED TO 9,100 ACRES OF CROPLAND, 7,630 ACRES OF PASTURELAND, 2,650 ACRES OF FOREST, AND 3,000 ACRES OF OTHER LAND. CONSERVATION PRACTICES TO BE APPLIED WOULD INCLUDE CONSERVATION CROPPING SYSTEMS, CONTOUR FARMING, TERRACES, DIVERSIONS, GRASSED WATERWAYS, MINIMUM TILLAGE, CROP RESIDUE USE, CRITICAL AREA PLANTING, GRADE STABILIZATION STRUCTURES, SUBSURFACE DRAINS, DRAINAGE FIELD DITCHES, OPEN CHANNELS, DRAINAGE MAINS OR LATERALS, WILDLIFE HABITAT MANAGEMENT, PASTURE AND HAYLAND MANAGEMENT, LIVESTOCK EXCLUSION PRACTICES, EROSION CONTROL PRACTICES, TIMBER AND RECREATIONAL FOREST MANAGEMENT, AND STREAMBANK IMPROVEMENT. CHANNEL WORK WOULD INCLUDE DEEPENING AND WIDENING CHANNELS AS WELL AS CLEARANCE AND DEBRIS REMOVAL FOR DRAINAGE AND FLOOD CONTROL PURPOSES. CONSTRUCTION OF THE EARTHFILL FLOODWATER-RETARDING STRUCTURES WOULD REQUIRE ACQUISITION OF EASEMENTS ON A TOTAL OF 763 ACRES OF LAND. ONE STRUCTURE WOULD IMPOUND A PERMANENT POOL OF WATER COVERING 53 ACRES, WHILE THE OTHER WOULD HAVE NO PERMANENT POOL. BOTH STRUCTURES WOULD FEATURE PROVISIONS FOR SEDIMENT STORAGE AS WELL AS FLOOD CONTROL. THE TOTAL INSTALLATION COST OF THE PROJECT MEASURES IS ESTIMATED AT \$21.9 MILLION. (POS)STRUCTURAL MEASURES WOULD PROTECT 530 ACRES FROM A 2-YEAR FREQUENCY FLOOD, DECREASE AGRICULTURAL LOSSES DUE TO FLOODING BY 62 PERCENT, CREATE 53 ACRES OF PONDED WATERS INCLUDING 8 ACRES OF HIGH-QUALITY WETLAND, DECREASE THE AMOUNT OF SEDIMENT LEAVING THE WATERSHED BY 30,400 TONS PER YEAR, AND ELIMINATE HAZARDS TO LIFE CAUSED BY FLOODING. LAND-TREATMENT MEASURES WOULD PROVIDE ADEQUATE DRAINAGE OUTLETS FOR 735 ACRES OF CROPLAND WIT. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 163 PAGES. (NAL Call No.: 82-0612F).

4234

UPPER CHESTER RIVER WATERSHED PLAN, MARYLAND AND DELAWARE.

KENT COUNTY COMMISSIONERS. AND DOVER, DELAWARE DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, COLLEGE PARK, MARYLAND JULY 1982 (EPA: JULY 16, 1982). (PUR)CHANNEL EXCAVATION AND LAND TREATMENT WITHIN THE 90,500-ACRE UPPER CHESTER RIVER WATERSHED IN KENT AND QUEEN ANNE'S COUNTIES, MARYLAND, AND IN KENT AND NEW CASTLE COUNTIES, DELAWARE ARE PROPOSED TO SOLVE AGRICULTURAL FLOODING AND DRAINAGE PROBLEMS. THE PROJECT WOULD INVOLVE PROVISION OF 18.5 PERSON-YEARS OF TECHNICAL ASSISTANCE TO ACCELERATE THE PLANNING AND APPLICATION OF LAND-TREATMENT MEASURES AND INSTALLATION OF 97 MILES OF CHANNEL WORK OVER A SEVEN-YEAR PERIOD. CHANNEL WORK WOULD INVOLVE CLEARING AND SHAPING OR ENLARGING 17.5 MILES OF PERENNIAL STREAMS, 67.5 MILES OF EPHEMERAL STREAMS, AND 12 MILES OF INTERMITTENT STREAMS. THE LAND-TREATMENT COMPONENT OF THE PROJECT WOULD INCLUDE 302,000

FEET OF HEDGEROW PLANTING, 2.0 MILLION FEET OF FIELD DITCH EXCAVATION, AND MANAGEMENT OF 1,860 ACRES OF WETLAND HABITAT AND 5,500 ACRES OF FOREST. THE PROGRAM WOULD TREAT 14,600 ACRES OF CROPLAND USING REDUCED TILLAGE SYSTEMS AND COVER CROPS. ESTIMATED COST OF THE PROJECT IS \$5.1 MILLION, AND THE ESTIMATED BENEFIT-COST RATIO IS 1.9. (POS)CHANNEL WORK AND LAND-TREATMENT MEASURES WOULD REDUCE FLOOD DAMAGES AND IMPROVE DRAINAGE ON 9,400 ACRES OF WET CROPLAND AND 5,200 ACRES OF INTERDEPENDENT NONWET CROPLAND, REDUCE EROSION ON AND SEDIMENT PRODUCED BY 14,600 ACRES OF CROPLAND, IMPROVE MANAGEMENT ON 3,700 ACRES OF FOREST LAND, AND IMPROVE WILDLIFE HABITAT WITHIN THE WATERSHED. THE AMOUNT OF PRIME FARMLAND WOULD INCREASE BY 9,400 ACRES. OF THE 250 FARM UNITS WITHIN THE WATERSHED, 120 WOULD BENEFIT FROM LAND-TREATMENT MEASURES AND 100 WOULD BENEFIT FROM STRUCTURAL MEASURES. (NEG)APPROXIMATELY 525 ACRES OF WOODED FLOODPLAIN AND ASSOCIATED WILDLIFE HABITAT WOULD BE CHANGED TO OPEN CHANNEL AND HERBACEOUS GROWTH AND BRUSH. PROJECT ACTIVITIES WOULD RESULT IN A NET LOSS OF 118 ACRES OF WETLAND. APPROXIMATELY 9.8 MILES OF EXISTING HEDGEROW WOULD BE REPLACED BY HERBACEOUS STRIPS, AND 75 ACRES OF CROPLAND WOULD BE CHANGED TO HERBACEOUS GROWTH AND BRUSH. EXCAVATION OF STREAMS WOULD DISRUPT. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 221 PAGES.

4235

UPPER TIOGA RIVER WATERSHED, TIOGA AND BRADFORD COUNTIES, PENNSYLVANIA.

DEPARTMENT OF AGRICULTURE~ FOREST SERVICE. HARRISBURG, PENNSYLVANIA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE MARCH 1982 (EPA: MARCH 1, 1982). (PUR)IMPLEMENTATION OF A FLOOD PREVENTION PLAN FOR THE 99,500-ACRE UPPER TIOGA RIVER WATERSHED IN TIOGA AND BRADFORD COUNTIES OF NORTHCENTRAL PENNSYLVANIA IS PROPOSED. THE PROJECT WOULD INVOLVE CONSTRUCTION OF 3.1 MILES OF DIKE, RELOCATION OF 54 PROPERTIES, AND INSTALLATION OF FLOODPROOFING MEASURES FOR 28 BUILDINGS. EACH EARTHEN DIKE WOULD HAVE A TOP WIDTH OF 12 FEET, AND THE RIVERSIDE SLOPE OF THE DIKE WOULD HAVE AN INNER ZONE OF IMPERVIOUS FINE-GRAINED SOIL AND AN OUTER ZONE OF PROTECTIVE GRAVEL. EARTHFILL FOR THE DIKES WOULD BE OBTAINED AT THE SITE OR FROM BORROW AREAS ON UPLAND SLOPES AND TERRACES. ESTIMATED COST OF THE SEVEN-YEAR PROJECT IS \$4.8 MILLION, AND THE BENEFIT-COST RATIO IS ESTIMATED AT 1.1. (POS)FLOOD DAMAGES WOULD BE REDUCED BY 89 PERCENT WITHIN A 1,500 ACRE AREA THAT INCLUDES RESIDENTIAL LAND AND FARMLAND. REDUCTION OF FLOOD LEVELS BEHIND THE DIKES WOULD PROTECT UTILITIES AND 2.5 MILES OF ROADS FROM DAMAGES AND KEEP THESE UTILITIES SERVICEABLE DURING PERIODS OF FLOODING. A TOTAL OF 131 PROPERTIES WOULD BE PROTECTED BY THE DIKES, AND THE 37 FLOODPROOFED BUILDINGS WOULD BE PROTECTED FROM WATER DAMAGE. FLOOD REDUCTION WOULD RESULT IN PREVENTION OF \$401,000 IN AVERAGE ANNUAL DAMAGES. (NEG)IN ADDITION TO THE 54 PROPERTIES RELOCATED FROM THE FLOODPLAIN, NINE BUILDINGS WOULD BE RELOCATED TO ALLOW FOR

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DIKE CONSTRUCTION. DIKE CONSTRUCTION ALSO WOULD REQUIRE FLOODPROOFING OF NINE STRUCTURES THAT WOULD NOT REQUIRE FLOODPROOFING OTHERWISE. THE DIKES WOULD DISPLACE 6.4 ACRES OF URBAN LAND, 12.6 ACRES OF CROPLAND, AND THREE ACRES OF HAYLAND. THE DIKES WOULD MAR AREA AESTHETICS AND REQUIRE NUMEROUS ROAD ALTERATIONS. (LEG)FEDERAL WATER POLLUTION CONTROL ACT OF 1972 (33 U.S.C. 1251 ET SEQ.), UNIFORM RELOCATION ASSISTANCE AND REAL PROPERTY ACQUISITION POLICIES ACT OF 1970 (42 U.S.C. 4601), AND WATERSHED PROTECTION AND FLOOD PREVENTION ACT OF 1954 (16 U.S.C. 1001 ET SEQ.). USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 147 PAGES. (NAL Call No.: 82-0267D).2 VOLUMES. (NAL Call No.: 82-0395F).

4236

UPPER YOCONA RIVER WATERSHED, LAFAYETTE, CALHOUN, AND PONTOTOC COUNTIES, MISSISSIPPI. CALHOUN COUNTY SOIL AND WATER CONSERVATION DISTRICT. JACKSON, MISSISSIPPI DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE MARCH 1982 (EPA: APRIL 28, 1982). (PUR)IMPLEMENTATION OF LAND-TREATMENT MEASURES, MODIFICATION OF 42.1 MILES OF CHANNEL, AND INSTALLATION OF WATER CONTROL STRUCTURES WITHIN THE 105,835-ACRE UPPER YOCONA RIVER WATERSHED IN LAFAYETTE, PONTOTOC, AND CALHOUN COUNTIES, MISSISSIPPI ARE PROPOSED. TECHNICAL ASSISTANCE WOULD BE PROVIDED TO AID LANDOWNERS IN IMPLEMENTATION OF REMAINING LAND-TREATMENT MEASURES, WHICH INCLUDE CONSERVATION CROPPING SYSTEMS, PASTURE PLANTING AND RENOVATION, DIVERSIONS, FARM PONDS, GRASSED WATERWAYS, TREE PLANTING, AND WOODLAND MANAGEMENT. CHANNEL WORK WOULD CONSIST OF 41 MILES OF CHANNEL ENLARGEMENT OR REALIGNMENT AND 1.1 MILES OF CLEARANCE OF NATURAL CHANNEL. CHANNEL CLEARANCE OPERATIONS WOULD BE CONDUCTED ON THE EXTREME UPPER PORTIONS OF THE YOCONA RIVER AND TOCCOPOLA CREEK. NUMEROUS OXBOWS AND BENDS WOULD BE CUT OFF AS CHANNEL ENLARGEMENT OR REALIGNMENT WORK FOLLOWED THE GENERAL PATTERN OF FLOW. CLEARANCE ACTIVITIES WOULD CONSIST OF REMOVAL OF WOODY GROWTH, DEBRIS, AND DRIFTS FROM THE CHANNEL WATER FLOW AREA. CHANNEL WORK AND APPURTENANCES WOULD INCLUDE CHANNEL EXCAVATION AND CLEARANCE, PLACEMENT OF RIPRAP FOR GRADE CONTROL, INSTALLATION OF PIPE DROPS AND CONCRETE GRADE CONTROL STRUCTURES, INSTALLATION OF CANTILEVER OVERFALL PIPES, INSTALLATION OF WATER LEVEL CONTROL STRUCTURES, STREAMBANK STABILIZATION, AND EXCAVATION OF INLET CHANNELS. AN AREA OF APPROXIMATELY 25 ACRES LOCATED SOUTH OF YOCONA RIVER WOULD BE ESTABLISHED FOR USE AS A WILDLIFE HABITAT AREA DURING THE WINTER SEASON, AND NUMEROUS OTHER MITIGATION FEATURES WOULD BE INCORPORATED INTO THE PLAN. A BRIDGE OVER POTLOCKNEY CREEK AT THE LOWER COUNTY ROAD CROSSING WOULD BE ALTERED. ESTIMATED COST OF THE PROJECT IS \$17.3 MILLION. (POS)LAND-TREATMENT MEASURES WOULD IMPROVE HYDROLOGIC CONDITIONS, REDUCE RUNOFF, PREVENT EROSION, PROVIDE OUTLETS FOR ON-FARM DRAINS, AND ENHANCE THE AESTHETIC VALUES OF THE WATERSHED. COMPLETION OF THE PROJECT WOULD REDUCE FLOODWATER DAMAGES ON 13,567 ACRES BY 66

PERCENT AND IMPROVE RUNOFF ON 13,. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209.

4237

An upstream finite element method for solution of transient transport equation in fractured porous media (Soil transport of pollutants). Hoorishad, J. Mehran, M. Washington, D.C., American Geophysical Union. Water resources research. June 1982. v. 18 (3). p. 588-596. 21 ref. (NAL Call No.: 292.8 W295).

4238

The uptake of fluorides during coagulation / by Joseph F. Judkins, Jr. -. Judkins, J. F. Auburn, Ala. Water Resources Research Institute 1982. "Completion report for DWRT project A-043-ALA, July 1974 - June 1976. ~"January 1982.". vi, 58 p. : ill. ; 28 cm. Bibliography: p. 55-58. (NAL Call No.: TD467.J8).

4239

Urban runoff and combined sewer overflow. SWJUA. DeGuida, R.N. Clarkson, R.A. Washington, D.C. : The Federation. Journal - Water Pollution Control Federation. Literature review. June 1986. v. 58 (6). p. 534-539. Includes 66 references. (NAL Call No.: DNAL 293.8 SE8).

4240

Urban stormwater quality, management and planning : proceedings of the Second International Conference on Urban Storm Drainage, held at Urbana, Illinois, USA, 15-19 June 1981 / edited by Ben Chie Yen. -. Yen, Ben Chie,; 1935-. Littleton, Colo. Water Resources Publications c1982. viii, 593 p. : ill. ; 24 cm. Includes bibliographies and index. (NAL Call No.: TD665.I57 1981a).

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Urbanization and water quality control / edited by William Whipple, Jr. -. Whipple, William,; 1909-. Minneapolis, Minn. American Water Resources Association c1975. vii, 302 p. : ill. ; 24 cm. --. Includes bibliographies. (NAL Call No.: TC401.A5 no.20).

4242

Use and application of aquatic toxicity data (Water quality criteria).

Dickson, K.L. Minneapolis, Minn. : American Water Resources Association, c1981. Utilizing scientific information in environmental quality planning : proceedings of symposium held in Las Vegas, Nevada, September 26-27, 1979 / edited by W.J. Grenney. p. 26-33. (NAL Call No.: TC401.A5 NO. 81-2).

4243

Use and cost of soil conservation and water quality practices in the Southeast.

Russell, J.R. Christensen, L.A. Washington, D.C. : The Service. Extract: The most frequently used conservation practices in the Southeast are terracing, sod waterways, permanent vegetative cover crops, and conservation tillage. Costs of terracing per acre ranged from \$125 in Kentucky to \$17 in South Carolina. Sod waterway costs ranged from \$1,854 in Kentucky to \$858 in Tennessee. Permanent vegetative cover costs ranged from a high of \$121 in South Carolina to a low of \$73 in North Carolina. Conservation tillage costs ranged from a high of \$48 per acre in Florida to a low of \$9 in Tennessee. ERS staff report - United States Dept. of Agriculture, Economic Research Service. Feb 1984. Available from NTIS, order no. PB84-161173. Feb 1984. (AGES831928). 19 p. Includes 16 references. (NAL Call No.: 916762(AGE)).

4244

Use of a fertile egg injection technique to assess toxicity of chlorinated compounds found in drinking water (Indiana).

Hekmati, M.JFPRD. Bradley, R.L. Jr.; Sunde, M.L. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Aug 1983. v. 46 (8). p. 690-692. Includes references. (NAL Call No.: 44.8 J824).

4245

Use of a greensand filter for removal of high level hydrogen sulfide from home water supplies.

Brune, D.E. Perez, R.L. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1985 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, Summer 1985. (fiche no. 85-2022). 11 p. (NAL Call No.: DNAL FICHE 290.9 AM32P).

4246

Use of a microcomputer in the administration of sanitation programs in small communities (Food service sanitation and water sampling programs).

Emery, H. Ames, Iowa : International Association of Milk, Food and Environmental Sanitarians, Inc. Dairy and food sanitation. Jan 1984. v. 4 (1). p. 7-8. (NAL Call No.: SF221.D342).

4247

Use of advanced water resources planning techniques in the development of regional water quality management programs / by Benjamin C. Daysart. -.

Dysart, Benjamin C. Clemson, S.C. Water Resources Research Institute, Clemson University 1972. "December 1972. ~Technical completion report for D.W.R.R. project no. B-017-SC, Agreement no. 14-31-0001-3127, project period, July 1, 1969-December 31, 1972. xvii, 319 p. : ill., maps, forms ; 28 cm. --. Bibliography: p. (235)-240. (NAL Call No.: TD365.D9).

4248

Use of Asiatic clam larvae in aquatic hazard evaluations (Water quality).

Foster, R.B. Philadelphia, Pa. : American Society for Testing and Materials, c1981. Ecological assessments of effluent impacts on communities of indigenous aquatic organisms : a symposium, Ft. Lauderdale, Fla., 29-30 Jan. 1979 / J.M. Bates and C.I. Weber, editors. p. 280-288. ill. Includes references. (NAL Call No.: QH545.W3E28).

4249

Use of bituminous coal as an alternative technique for field concentration of waterborne viruses.

APMBA. Dahling, D.R. Phirke, P.M.; Wright, B.A.; Safferma, R.S. Washington, D.C. : American Society for Microbiology. Applied and environmental microbiology. May 1985. v. 49 (5). p. 1222-1225. Includes 21 references. (NAL Call No.: DNAL 448.3 AP5).

4250

Use of chromaticity in remote measurements of water quality (Inland lakes).

Bukata, R.P.RSEEA. Bruton, J.E.; Jerome, J.H. New York : Elsevier. Remote sensing of environment. May 1983. v. 13 (2). p. 161-177. ill. Includes references. (NAL Call No.: Q184.R4).

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4251

Use of dissolved oxygen modeling results in the management of river quality (Willamette River, Oregon).

Rickert, D.A.SWJUA. Washington : The Federation. Journal - Water Pollution Control Federation. Jan 1984. v. 56 (1). p. 94-101. ill., maps. Includes references. (NAL Call No.: 293.8 SE8).

4252

Use of geostatistics to evaluate water quality changes due to coal mining (Water pollution, variograms).

Rogowski, A.S. Minneapolis, Minn. : American Water Resources Association. Water resources bulletin. Dec 1983. v. 19 (6). p. 983-992. ill. Includes references. (NAL Call No.: 292.9 AM34).

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Use of iron milk medium for enumeration of Clostridium perfringens (Water, soilbiota, sewage products bacteria, sludge, bacterial growth).

St John, W.D.JANCA. Matches, J.R.; Wekell, M.M. Arlington : The Association. Journal of the Association of Official Analytical Chemists. Sept 1982. v. 65 (5). p. 1129-1133. 16 ref. (NAL Call No.: 381 AS7).

4254

The use of Landsat MSS digital data in water quality mapping of the Neuse River Estuary, N.C. / by Siamak Khorram and Heather M. Cheshire. -.

Khorram, Siamak. Cheshire, Heather M.; (Heather McRae); 1950-. Raleigh, N.C. (124 Riddick Buildin, North Carolina State University Raleigh 27650) Water Resources Research Institute of the University of North Carolina 1983. "Project no. A-125-NC ; Agreement no. 14-34-0001-2135. ~"May 1983.". xv, 29 leaves, (1) p. of plates : ill., maps ; 28 cm. --. Bibliography: leaves 20-21. (NAL Call No.: TD201.N6 no.193).

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Use of rain and dry deposition compositions for interpreting ground-water chemistry.

GRWAA. Wagner, G.H. Steele, K.F. Worthington, Ohio : Water Well Journal Pub. Ground water. Sept/Oct 1985. v. 23 (5). p. 611-616. maps. Includes references. (NAL Call No.: DNAL TD403.G7).

4256

The use of salt-marsh mosquito control impoundments as wastewater retention areas (Water quality, Florida).

Carlson, D.B.MOSQA. Albany : American Mosquito Control Association. Mosquito news. Mar 1983. v. 43 (1). p. 1-6. maps. Includes references. (NAL Call No.: 421 M85).

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The use of stream sediments to infer water quality on a stream in northwestern Ohio.

Alther, G.R. Columbus, Ohio Academy of Science. The Ohio journal of science. Sept/Nov 1981. v. 81 (5/6). p. 247-252. Includes 12 ref. (NAL Call No.: 410 OH3).

4258

Use of the algal assay bottle test in assessing nutrient effects of pulp and paper effluents on receiving streams (Selenastrum capricornutum).

Mischuk, M.W. Atlanta, Ga. : TAPPI Press, c1983. 1983 Environmental Conference : Westin Peachtree Plaza, Atlanta, GA, March 2-4. p. 25-28. Includes references. (NAL Call No.: TD899.P3T36 1983).

4259

Use of XAD-2 macroreticular resin for the recovery of aldicarb and its metabolites in drinking water (Systemic pesticide with insecticidal, acaricidal, and nematocidal properties).

Narang, A.S. Eadon, G. New York, N.Y., Gordon and Breach Science Publishers. International journal of environmental analytical chemistry. 1982. v. 11 (3/4). p. 167-174. 22 ref. (NAL Call No.: QH540.I52).

4260

User perceptions of benefits from water supplied by Cuming County Rural Water District.

Janovec, T.M. Gessaman, P.H. Lincoln, Neb. : The Station. Extract: This study was a first attempt to identify, and, to the extent possible, to quantify the economic benefits accruing to water users due to their use of water supplied by the Cuming County Rural Water District. Specific objectives of the research were: 1. To identify the sources of water used by the respondents; 2. To identify the principal uses of these water supplies; and 3. To identify and estimate the benefits respondents realize from the use of water supplied by the Rural Water System. Report - Department of Agricultural Economics, University of Nebraska, Agricultural Experiment Station. (1983?). (1983?). (130). 31 p. (NAL Call No.: 281.9 N27).

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**WAIMANALO WATERSHED, CITY AND COUNTY OF
HONOLULU, HAWAII.**

DEPARTMENT OF AGRICULTURE~ SOIL CONSERVATION
SERVICE. HONOLULU, HAWAII DEPARTMENT OF
AGRICULTURE, SOIL CONSERVATION SERVICE DECEMBER
1981 (EPA: JUNE 8, 1982). (PUR)CONSTRUCTION OF
A GRAVITY-PRESSURE, PIPED DISTRIBUTION SYSTEM
AND OTHER MEASURES TO IRRIGATE 1,252 ACRES OF
LAND WITHIN THE 6,132-ACRE WAIMANALO WATERSHED
IN THE CITY AND COUNTY OF HONOLULU, HAWAII IS
PROPOSED. THE WAIMANALO IRRIGATION SYSTEM WOULD
BE REPLACED WITH A GRAVITY-PRESSURE, PIPED
DISTRIBUTION SYSTEM THAT WOULD PROVIDE
CONTINUOUS SERVICE AT FULL SUPPLY TO 890 ACRES.
A DEEP, OFF-CHANNEL RESERVOIR WOULD BE USED FOR
STORAGE, REGULATION, AND NEMATODE CONTROL. A
SEPARATE SYSTEM WOULD BE USED FOR IRRIGATING 68
ACRES WITH TREATED SEWAGE EFFLUENT. THE
HONOLULU BUREAU OF WATER SUPPLY WOULD CONTINUE
TO PROVIDE IRRIGATION SERVICE TO 294 ACRES OF
LAND. ACCELERATED TECHNICAL ASSISTANCE WOULD BE
PROVIDED, AND SOLID WASTE COLLECTION SITES
WOULD BE DEVELOPED. ESTIMATED COST OF THE
PROJECT IS \$12.8 MILLION. (POS)IMPLEMENTATION
OF THE PROJECT WOULD INCREASE THE AREA OF PRIME
FARMLAND UNDER CONSTRUCTION BY 377 ACRES,
IMPROVE WATER QUALITY IN THE WAIMANALO CHANNEL,
DECREASE THE AMOUNT OF MUNICIPAL WATER USED FOR
AGRICULTURAL PURPOSES FROM 71 TO 56 MILLION
GALLONS PER YEAR, INCREASE THE AMOUNT OF
IRRIGATION WATER DELIVERED TO FARMS FROM 128 TO
548 MILLION GALLONS PER YEAR, AND IMPROVE THE
QUALITY OF IRRIGATION WATER DELIVERED BY THE
VARIOUS SYSTEMS. THE VISUAL APPEARANCE OF THE
WATERSHED WOULD BE IMPROVED BY USE OF NEW SOLID
WASTE COLLECTION SITES, THE INCREASED NUMBER OF
FARMING OPERATIONS, AND THE ADDITIONAL
IRRIGATED FARMLAND. APPROXIMATELY 40 NEW FARMS
WOULD BE DEVELOPED, ADDING 100 FARM JOBS TO THE
AREA ECONOMY. (NEG)GROUNDWATER QUALITY IN THE
ALLUVIAL ZONE COULD DECLINE AS LEAKING DITCHES
AND RESERVOIRS WERE REPLACED AND IRRIGATION
EFFICIENCY INCREASED. IRRIGATION WITH TREATED
SEWAGE EFFLUENT WOULD ENTAIL THE POSSIBILITY OF
PERMEATION OF POLLUTANTS INTO THE ALLUVIAL
GROUNDWATER TABLE. ONE ARCHAEOLOGICAL SITE
COULD BE DAMAGED DURING CONSTRUCTION, AND ANY
DAMAGE TO THE EXISTING IRRIGATION SYSTEM WOULD
DAMAGE A STRUCTURE THAT MAY BE ELIGIBLE FOR

INCLUSION IN THE NATION. USDA EMPLOYEES REQUEST
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Hermanson, R. Pullman, Wash., The Service.
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WATERSHED PLAN FOR ENGLISH COULEE WATERSHED, GRAND FORKS COUNTY, NORTH DAKOTA.

CITY OF GRAND FORKS, NORTH DAKOTA. BISMARCK, NORTH DAKOTA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE JANUARY 1983 (EPA: JUNE 23, 1983). (PUR)IMPLEMENTATION OF A FLOOD CONTROL AND LAND TREATMENT PLAN FOR THE 73,664-ACRE ENGLISH COULEE WATERSHED IN GRAND FORKS COUNTY OF EASTERN NORTH DAKOTA IS PROPOSED. THE PREFERRED PLAN WOULD INVOLVE PROVISION OF ACCELERATED TECHNICAL ASSISTANCE IN INSTALLATION OF RESOURCE MANAGEMENT SYSTEMS ON 14,260 ACRES OF CROPLAND AND 1,760 ACRES OF RANGE, PASTURE, AND HAYLAND; CONSTRUCTION OF A ROLLED EARTHFILL DAM WITH RESERVOIR STORAGE RESERVED FOR SEDIMENT AND FLOODWATER; CONSTRUCTION OF A DIVERSION STRUCTURE TO CONVEY OUTFLOWS FROM THE FLOODWATER-RETARDING DAM AND THE RUNOFF FROM 8.7 MILES OF UNCONTROLLED DRAINAGE AREA; AND DEVELOPMENT OF THREE MILES OF FLOODWAY TO JOIN TWO EXISTING FLOODWAYS THAT HAVE A COMBINED LENGTH OF 10.5 MILES. LAND TREATMENT ACTIONS WOULD INCLUDE CONSERVATION CROPPING SYSTEMS ON 14,260 ACRES, 139,500 LINEAR FEET OF FIELD WINDBREAKS, CONSERVATION TILLAGE SYSTEMS ON 8,130 ACRES, PERMANENT HAYLAND PLANTING ON 440 ACRES, PLANTING OF GRASSES AND LEGUMES IN ROTATION ON 560 ACRES, CROP RESIDUE USE ON 14,260 ACRES, 900 LINEAR FEET OF DIVERSIONS, PLANTING OF GRASSES ON 9 ACRES WITHIN WATERWAYS, ENFORCEMENT OF PROPER GRAZING USE ON 1,430 ACRES OF GRASSLAND, PASTURE AND HAYLAND MANAGEMENT PRACTICES ON 160 ACRES, RANGE RESEEDING ON 80 ACRES, 9 LIVESTOCK WATERING PONDS, 22,500 LINEAR FEET OF CROSS FENCING, WILDLIFE MANAGEMENT ON 190 ACRES OF WETLAND, AND WILDLIFE MANAGEMENT PRACTICES ON 360 ACRES OF UPLAND. THE FLOODWATER-RETARDING STRUCTURE, WHICH WOULD CONTROL DRAINAGE ON 57.1 SQUARE MILES (OR NEARLY 50 PERCENT) OF THE WATERSHED, WOULD EXTEND 6.5 MILES AND HAVE AN AVERAGE HEIGHT OF 8 FEET; THE STRUCTURE WOULD REQUIRE 500,000 CUBIC YARDS OF FILL. THE FLOODWAY WOULD COMPLETE A 13.5-MILE SYSTEM THAT WOULD CONVEY DIVERTED WATER TO THE RED RIVER OF THE NORTH. COST OF STRUCTURAL MEASURES IS ESTIMATED AT \$3.5 MILLION, AND TECHNICAL ASSISTANCE COSTS ARE ESTIMATED AT \$34,000. ESTIMATED BENEFIT-COST RATIO FOR THE PROJECT IS 1.13. (POS)BOTH URBAN AND RURAL PROPERTIES W/ USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 113 PA87 PAGES. (NAL Call No.: 82-0397D).95 PAGES. (NAL Call No.: 83-0439F).

4445

WATERSHED PLAN FOR TURKEY CREEK WATERSHED IN ALFALFA, GARFIELD, KINGFISHER, AND MAJOR COUNTIES, OKLAHOMA.

ALFALFA COUNTY CONSERVATION DISTRICT. STILLWATER, OKLAHOMA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE JUNE 1983 (EPA: JUNE 20, 1983). (PUR)IMPLEMENTATION OF A FLOOD CONTROL AND WATERSHED PROTECTION PLAN FOR THE 244,006-ACRE TURKEY CREEK WATERSHED IN ALFALFA, GARFIELD, KINGFISHER, AND MAJOR COUNTIES OF NORTHCENTRAL OKLAHOMA IS PROPOSED. THE PLAN

WOULD INVOLVE CONSTRUCTION OF 11 FLOODWATER-RETARDING STRUCTURES AND DEVELOPMENT OF WILDLIFE MITIGATION MEASURES ON 43.5 ACRES OF LAND OVER A SIX-YEAR PERIOD. APPROXIMATELY 62 STAFF-YEARS OF TECHNICAL ASSISTANCE WOULD BE PROVIDED TO FURTHER PLANNING GOALS. THE FLOODWATER-RETARDING STRUCTURES WOULD BE COMPACTED EARTHFILL EMBANKMENTS; BORROW MATERIAL WOULD BE TAKEN MOSTLY FROM AREAS BELOW THE SPILLWAY CREST. ALL PRINCIPAL SPILLWAYS WOULD CONSIST OF DROP-INLET STRUCTURES WITH STANDARD OPEN-TOP CONCRETE RISERS AND CONCRETE CONDUITS. EMERGENCY SPILLWAYS WOULD BE FORMED OF ROCK OR VEGETATED EARTH. ALL STRUCTURES WOULD OPERATE AUTOMATICALLY, WITH FLOODWATER BEING TEMPORARILY STORED IN DETENTION POOLS AND RELEASED AT A CONTROLLED RATE THROUGH THE PRINCIPAL SPILLWAYS. NINE OF THE STRUCTURES WOULD CONTROL THE 25-YEAR FREQUENCY STORM, WHILE THE REMAINING STRUCTURES WOULD CONTROL THE 50-YEAR FREQUENCY STORM. WATER INITIALLY RETAINED IN THE SEDIMENT POOLS WOULD BE DISPLACED BY SEDIMENT OVER THE 100-YEAR LIFE OF EACH STRUCTURE. LAND RIGHTS WOULD BE ACQUIRED ON THE 43.5 ACRES TO BE MANAGED FOR MITIGATION OF IMPACTS TO WILDLIFE HABITAT. MITIGATION LANDS WOULD INCLUDE 13 ACRES OF RANGELAND, 18 ACRES OF TIMBERLAND, AND 12.5 ACRES OF CROPLAND AND/OR PASTURE. COST OF THE PROJECT IS ESTIMATED AT \$4.6 MILLION, AND THE ESTIMATED BENEFIT-COST RATIO IS 1.24. (POS)OPERATION OF THE FLOOD CONTROL STRUCTURES WOULD REDUCE FLOODWATER DAMAGE TO 17,598 ACRES OF AGRICULTURAL LAND, REDUCE FLOODING IN THE TOWN OF DOVER, REDUCE SEDIMENT DEPOSITION DOWNSTREAM OF THE STRUCTURES, AND MAINTAIN THE ENVIRONMENTAL QUALITY OF THE WATERSHED. AVERAGE ANNUAL SAVINGS RESULTING FROM FLOOD PROTECTION PROVIDED TO THE TOWN WOULD AMOUNT TO \$7,790, WHILE AVERAGE ANNUAL SAVINGS RESULTING FROM AGRICULTURAL FLOOD. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209.

4446

WATERSHED PLAN FOR TURKEY CREEK WATERSHED IN ALFALFA, GARFIELD, KINGFISHER, AND MAJOR COUNTIES, OKLAHOMA.

ALFALFA COUNTY CONSERVATION DISTRICT. STILLWATER, OKLAHOMA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE APRIL 1982 (EPA: APRIL 20, 1982). (PUR)IMPLEMENTATION OF A FLOOD CONTROL AND WATERSHED PROTECTION PLAN ON THE 244,006-ACRE TURKEY CREEK WATERSHED IN ALFALFA, GARFIELD, KINGFISHER, AND MAJOR COUNTIES OF NORTHCENTRAL OKLAHOMA IS PROPOSED. THE PLAN WOULD INVOLVE CONSTRUCTION OF 11 FLOODWATER-RETARDING STRUCTURES AND DEVELOPMENT OF WILDLIFE MITIGATION MEASURES ON 43.5 ACRES OF LAND OVER A SIX-YEAR PERIOD. APPROXIMATELY 62 STAFF-YEARS OF TECHNICAL ASSISTANCE WOULD BE PROVIDED TO FURTHER PLANNING GOALS. THE FLOODWATER-RETARDING STRUCTURES WOULD BE COMPACTED EARTHFILL EMBANKMENTS, AND BORROW MATERIAL WOULD BE TAKEN MOSTLY FROM AREAS BELOW THE SPILLWAY CREST. ALL PRINCIPAL SPILLWAYS WOULD CONSIST OF DROP-INLET STRUCTURES WITH STANDARD OPEN-TOP CONCRETE RISERS AND CONCRETE CONDUITS. EMERGENCY SPILLWAYS WOULD BE FORMED

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OF ROCK OR VEGETATED EARTH. ALL STRUCTURES WOULD OPERATE AUTOMATICALLY, WITH FLOODWATER BEING TEMPORARILY STORED IN DETENTION POOLS AND RELEASED AT A CONTROLLED RATE THROUGH THE PRINCIPAL SPILLWAYS. NINE OF THE STRUCTURES WOULD CONTROL THE 25-YEAR FREQUENCY STORM, WHILE THE REMAINING STRUCTURES WOULD CONTROL THE 50-YEAR FREQUENCY STORM. WATER INITIALLY RETAINED IN THE SEDIMENT POOLS WOULD BE DISPLACED BY SEDIMENT OVER THE 100-YEAR LIFE OF EACH STRUCTURE. LAND RIGHTS WOULD BE ACQUIRED ON THE 43.5 ACRES TO BE MANAGED FOR MITIGATION OF IMPACTS TO WILDLIFE HABITAT. MITIGATION LANDS WOULD INCLUDE 13 ACRES OF RANGELAND, 18 ACRES OF TIMBERLAND, AND 12.5 ACRES OF CROPLAND AND/OR PASTURE. COST OF THE PROJECT IS ESTIMATED AT \$4.3 MILLION, AND THE ESTIMATED BENEFIT-COST RATIO IS 1.27. (POS)OPERATION OF THE FLOOD CONTROL STRUCTURES WOULD REDUCE FLOODWATER DAMAGE TO 17,598 ACRES OF AGRICULTURAL LAND, REDUCE FLOODING IN THE TOWN OF DOVER, REDUCE SEDIMENT DEPOSITION DOWNSTREAM OF THE STRUCTURES, AND MAINTAIN THE ENVIRONMENTAL QUALITY OF THE WATERSHED. AVERAGE ANNUAL SAVINGS RESULTING FROM FLOOD PROTECTION PROVIDED TO THE TOWN WOULD AMOUNT TO \$7,790, WHILE AVERAGE ANNUAL SAVINGS RESULTING FROM AGRICULTURE. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209.

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Dudas, A. Garlitz, N.M. Washington, D.C. : The Service. Soil & water conservation news - United States Dept. of Agriculture, Soil Conservation Service. Sept 1984. v. 5 (6). p. 5-6. (NAL Call No.: DNAL aS622.S6).

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Weir calibration (Water yield and nutrient losses).

Arnold, L.E. Rolfe, G.L. Urbana-Champaign, Ill., Illinois Agricultural Experiment Station. DSAC - Dixon Springs Agricultural Center. Jan 1980. Jan 1980. (8). p. 189-190. ill. Includes 2 ref. (NAL Call No.: S1.D5).

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4450

WEST BUTTRICK CREEK WATERSHED, WEBSTER COUNTY, IOWA.

WEBSTER COUNTY BOARD OF SUPERVISORS. DES MOINES, IOWA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE OCTOBER 1981 (EPA: DECEMBER 8, 1981). (PUR)ENLARGING EXISTING DRAINAGE DITCHES AND INSTALLING TILE MAINS IN CROPLAND WITHIN THE 47,926-ACRE WEST BUTTRICK CREEK WATERSHED IN WEBSTER COUNTY, IOWA ARE PROPOSED. THE WATERSHED, WHICH LIES IN THE NORTHCENTRAL PORTION OF THE STATE, CONTAINS ALL OR PORTIONS OF 186 FARMS AND IS 91 PERCENT FARMLAND. THE PROJECT WOULD INVOLVE ENLARGEMENT OF 18 MILES OF OPEN CHANNEL AND INSTALLATION OF 17.5 MILES OF SUBSURFACE DRAINS. MOST CHANNEL WORK WOULD CONSIST OF DEEPENING AND ENLARGING EXISTING CHANNELS TO PROVIDE OUTLETS FOR TILE DRAINS AND TIMELY REMOVAL OF FLOODWATER. APPROXIMATELY 2,000 FEET OF EXISTING CHANNEL WOULD BE REALIGNED. CHANNELS TO BE MODIFIED WOULD INCLUDE 11.5 MILES OF DRAINAGE AND FLOOD PREVENTION CHANNELS AND 6.5 MILES OF SINGLE-PURPOSE DRAINAGE CHANNELS. APPROXIMATELY 160 SURFACE WATER OUTLETS WOULD BE INSTALLED AS APPURTENANCES TO CHANNEL WORK, AND RIPRAP GRADIENT CONTROL STRUCTURES WOULD BE INSTALLED TO ESTABLISH STABLE GRADIENTS WHERE NECESSARY. WOODY VEGETATION DESTROYED DURING PROJECT IMPLEMENTATION WOULD BE REPLACED BY PLANTING 20 ACRES OF FARMSTEAD WINDBREAKS AND ODD AREAS. NONPROJECT MEASURES TO BE UNDERTAKEN IN ASSOCIATION WITH THE PROJECT WOULD BE THE REPLACEMENT OF FIVE COUNTY HIGHWAY BRIDGES. COST OF THE SEVEN-YEAR PROJECT IS ESTIMATED AT \$4.1 MILLION, WHILE ANNUAL OPERATION AND MAINTENANCE COSTS ARE ESTIMATED AT \$41,360. THE OVERALL BENEFIT-COST RATIO FOR THE PROJECT IS ESTIMATED AT 4.5. (POS)STRUCTURAL MEASURES IMPLEMENTED UNDER THE PLAN WOULD PROVIDE DRAINAGE OUTLETS TO APPROXIMATELY 29,300 ACRES. REDUCTION OF FLOODING AND IMPROVED DRAINAGE WOULD DECREASE SURFACE PONDING AREAS AVAILABLE FOR VECTOR BREEDING. IMPROVED DRAINAGE AND FLOOD CONTROL WOULD INCREASE FARM PRODUCTIVITY AND ASSOCIATED FARM INCOME. SEDIMENT CONCENTRATIONS IN WEST BUTTRICK CREEK WOULD BE REDUCED BY THE PLANNED PROJECT MEASURES. APPROXIMATELY 1,400 ACRES OF WETLANDS WOULD BE SUBJECT TO IMPROVED DRAINAGE. IMPLEMENTATION OF THE PROJECT WOULD PROVIDE 7,200 PERSON-DAYS OF EMP. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 O, ARLINGTON, VA 22209. 53 PAGES. (

4451

Wetland ecosystem studies from a hydrologic perspective.

WARBA. LaBaugh, J.W. Minneapolis, Minn. : American Water Resources Association. Water resources bulletin. Feb 1986. v. 22 (1). p. 1-10. Includes references. (NAL Call No.: DNAL 292.9 AM34).

4452

Wetland invertebrates in relation to hydrology and water chemistry.

XFGTA. Reid, F.A. St. Paul, Minn. : The Station. USDA Forest Service general technical report NC - United States, North Central Forest Experiment Station. Paper presented at the "Workshop on Water Impoundments for Wildlife: A Habitat Management Workshop," August 31/September 1-2, 1982, Bemidji, Minnesota. 1985. (100). p. 72-79. Includes references. (NAL Call No.: DNAL aSD11.A352).

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Wetland values in the prairie pothole region of North America.

PGPCA. Linder, R.L. Hubbard, D.E. Lincoln, Neb. : The Council. Extract: Wetlands are important to wildlife in the Prairie Pothole Region of North America. A diversity of wetland types is needed to maintain wildlife populations. Values discussed in this paper in addition to wildlife are: water retention, water quality, forage production, ground water recharge, and aesthetics. Economic values of wetlands must be quantified in order for decision makers to program fate of wetlands in the future. Proceedings - Great Plains Agricultural Council. This paper was presented at the annual meeting of the Great Plains Agricultural Council held June 7/9, 1982, North Platte, Nebraska. June 7-9, 1982. p. 27-39. Includes 93 references. (NAL Call No.: DNAL 282.9 G7992).

4454

What about tomorrow? (Water distribution, chemical and bacterial pollution).

Tufty, B. Washington, D.C. : American Forestry Association. American forests. Aug 1984. v. 90 (8). p. 36-38, 49-51. ill. (NAL Call No.: 99.8 F762).

4455

What price municipal water? : some suggestions for developing countries on how to use urban water efficiently / A.P. Grima. -.

Grima, A. P. Toronto University of Toronto, Institute for Environmental Studies, Publications and Information 1978. Paper prepared for presentation at the Third Water Resources Congress, International Water Resources Association. 9 p. ; 28 cm. --. Bibliography: p. 8-9. (NAL Call No.: QH540.P83 no.5).

4456

When the well runs dry: a proposal for change in the common law of ground water rights in Massachusetts.

BCERDX. Lukas, T.N. Newton Centre, Mass. : Environmental affairs, Inc. Boston College environmental affairs law review. 1982. v. 10 (2). p. 445-502. Includes references. (NAL Call No.: DNAL TD172.E48).

4457

Who should pay how much for soil and water conservation?.

JSWCA3. Seitz, W.D. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. Sept/Oct 1984. v. 39 (5). p. 308-309. (NAL Call No.: DNAL 56.8 J822).

4458

Why use chemigation (Application of fertilizers, herbicides, insecticides and fungicides through an irrigation system).

Harrison, K.A. Skinner, R.E. Athens, Ga., The Service. Circular - Cooperative Extension Service, University of Georgia. Mar 1981. Mar 1981. (736). 2 p. ill. (NAL Call No.: 275.29 G29C).

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Wisconsin irrigation--boom or bust?.

Jackson, G. Leatherman, J.C.; Ankle, D. Washington, D.C. : The Administration. Extension review - United States Department of Agriculture. Summer 1985. v. 56 (3). p. 34. (NAL Call No.: DNAL 1 EX892EX).

4460

Worldwide aspects of municipal wastewater reclamation and reuse (Water demands).

Heaton, R.D. New York : Academic Press, 1981. Municipal wastewater in agriculture / edited by Frank M. D'Itri, Jorge Aguirre Martinez, Mauricio Athie Lambarri. p. 43-74. ill., maps. (NAL Call No.: TD760.I57 1980).

4461

The Worth of groundwater monitoring at a sanitary landfill : a case study / Mary Postle ... (et al.). -.

Postle, Mary. Amherst Massachusetts Agricultural Experiment Station, College of Food and Natural Resources 1984. "March 1984". 55 p. : ill., map ; 23 cm. --. Bibliography: p. 48-51. (NAL Call No.: 100 M38H (1) no.687).33F).

(WATER RESOURCES AND MANAGEMENT)

4462

YELLOWSTONE DIVERSION PROJECT, DAWSON COUNTY, MONTANA.

INTAKE WATER COMPANY. BILLINGS, MONTANA
DEPARTMENT OF THE INTERIOR, BUREAU OF
RECLAMATION JUNE 1983 (EPA: JUNE 16, 1983).
(PUR)GRANTING THE INTAKE WATER COMPANY (IWC) A
RIGHT-OF-WAY TO CONSTRUCT AND OPERATE A PUMPING
STATION, WATER PIPELINE, AND STORAGE RESERVOIR
ALONG THE YELLOWSTONE RIVER IN DAWSON COUNTY,
MONTANA IS PROPOSED. THE FACILITIES, KNOWN AS
THE YELLOWSTONE DIVERSION PROJECT AND LOCATED
NEAR INTAKE, MONTANA, WOULD ALLOW IWC TO DIVERT
UP TO 80,650 ACRE-FEET ANNUALLY FOR USE IN
PORTIONS OF DAWSON AND WIBAUX COUNTIES IN
MONTANA AND GOLDEN VALLEY COUNTY, NORTH DAKOTA.
DEVELOPMENT OF THE WATER RIGHTS WOULD INVOLVE
CONSTRUCTION OF A 2,300-FOOT-LONG,
100-FOOT-HIGH DAM TO CREATE A 25,000-ACRE-FOOT
RESERVOIR WITH A SURFACE AREA OF 750 ACRES;
CONSTRUCTION OF OUTLET WORKS AND A PUMP STATION
BELOW THE DAM; INSTALLATION OF DIVERSION AND
PUMPING FACILITIES ON JOE'S ISLAND TO DIVERT
WATER AT A MAXIMUM RATE OF 200 CUBIC FEET PER
SECOND; PLACEMENT OF TWO PARALLEL 11,700-FOOT
PIPELINES WITH DIAMETERS OF 42 INCHES;
CONSTRUCTION OF A FOUR-MILE TRANSMISSION LINE;
AND CONSTRUCTION OF A SIDE CHANNEL BRIDGE AND
ACCESS ROAD ON JOE'S ISLAND. THE DAM AND
RESERVOIR WOULD BE SITUATED AT THE LOWER END OF
BOX ELDER CREEK AND WOULD CONTROL A DRAINAGE
AREA OF 140 SQUARE MILES. FIVE POTENTIAL BORROW
AREAS COULD BE USED FOR MATERIAL FOR DAM
CONSTRUCTION. (POS)THE PROJECT WOULD MAKE
ENOUGH WATER AVAILABLE TO ACCOMMODATE EXPECTED
INCREASES IN POPULATION AND INDUSTRIAL
DEVELOPMENT IN THE REGION. A PORTION OF THE
PROJECT WATER WOULD BE USED FOR INDUSTRIAL
PURPOSES INVOLVED IN THE DEVELOPMENT OF COAL
RESERVES AND CONVERSION OF MINED COAL INTO
VARIOUS SYNTHETIC FUELS. THE RESERVOIR WOULD
CONSTITUTE A SIGNIFICANT RECREATIONAL RESOURCE,
PROVIDING OPPORTUNITIES FOR FISHING AND OTHER
WATER-RELATED RECREATIONAL ACTIVITIES.
APPROXIMATELY 120 JOBS WOULD BE CREATED DURING
THE 115 MONTHS OF CONSTRUCTION ACTIVITY.
(NEG)DEVELOPMENT OF 891 ACRES OF LAND AND WATER
FOR PROJECT PURPOSES WOULD RESULT IN INUNDATION
OF 4.1 MILES OF STREAM AND DISPLACEMENT OF 60
ACRES OF BRUSH, 600 ACRES OF SILVER SAGEBRUSH
GRASSLAND, 15 ACRES OF UP. USDA EMPLOYEES
REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL
LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES
PRESS, 1700 NORTH MOORE STREET, SUITE 70 O,
ARLINGTON, VA 22209. 2 VOLUMES. (NAL Call No.:
83-04

4463

Your water and your health / Allen E. Banik with Carlson Wade. -.

Banik, Allen E. Wade, Carlson. New Canaan,
Conn. Keats Pub. 1981. 128 p. : ill. ; 18 cm.
--. Bibliography: p. 127-128. (NAL Call No.:
RA591.B36 1982).

4464

2nd Interagency Workshop on In-Situ Water-Quality Sensing: Biological Sensors, Pensacola Beach, Florida, April 28-30, 1980 / sponsors: Environmental Protection Agency ... (et al.). -.

(Washington, D.C.?) U.S. Dept. of Commerce,
National Oceanic and Atmospheric Administration
1981. "Host: National Marine Pollution Program
Office, National Oceanic and Atmospheric
Administration.". viii, 244 p. ill. ; 28 cm.
Includes bibliographies. (NAL Call No.:
QH90.57.B5I57 1980).

4465

The 208 water quality management plan: what it means to you (Illinois, legislation, soil erosion).

Walker, R.D. (Champaign, Ill.) : Cooperative
Extension Service, University of Illinois,
(1981?). Seventh Forest Owners and Users
Conference : Saturday, March 14, 1981 9 a.m. to
4 p.m. DuPage County Office Building, Wheaton,
Illinois. p. 11-15. (NAL Call No.: SD391.F62
1981).

DRAINAGE AND IRRIGATION

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Acid mine drainage contaminates groundwater of a Tennessee watershed.

ENGED. O'Bara, C.J. Estes, R.D. New York, N.Y. : Springer. Environmental geology and water sciences. 1985. v. 7 (3). p. 159-161. Includes 7 references. (NAL Call No.: DNAL QE1.E5).

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Aerosol generation from sprinkler irrigation with reclaimed wastewater.

Hsiao, J.S. Sheikh, B. Denver, Colo. : AWWA Research Foundation ; Springfield, Va. : reproduced by NTIS, 1981. Proceedings of the Water Reuse Symposium II : held August 23-28, 1981, Washington, D.C. v.3, p. 2234-2240. ill. Includes references. (NAL Call No.: TD429.W3 1981).

4468

Agricultural benefits of salinity control on the Red River.

Laughlin, D.H. Lacewell, R.D. College Station, Tex., Western Agricultural Economics Association. Extract: Control of salinity offers an opportunity to increase agricultural production along the Red River of Texas and Oklahoma. However, absolute benefits and the distribution of those benefits are sensitive to the crop yield effect of SAR (sodium absorption ratio). The effect of SAR on crop yield is not well defined. This study estimates agricultural benefits of a chloride control project as \$65 million, not considering any SAR effect and \$117 million with an SAR effect. Further, distribution of benefits was reversed between the eastern and western portions of the study area. Western journal of agricultural economics. Dec 1981. v. 6 (2). p. 195-206. 23 ref. (NAL Call No.: HD1750.W4).

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Agricultural drainage problems and contamination at Kesterson Reservoir hearing before the Subcommittee on Water and Power Resources of the Committee on Interior and Insular Affairs, House of Representatives, Ninety-ninth Congress, first session ... hearing held in Los Banos, CA, March 15, 1985.

--. United States.~Congress.~House.~Committee on Interior and Insular Affairs.~Subcommittee on Water and Power Resources. Washington, D.C. : U.S. G.P.O., 1985. Distributed to some depository libraries in microfiche.~ Shipping list no.: 85-1098-P.~ "Serial no. 99-3." v, 632 p. : ill., forms, maps ; 24 cm. Includes bibliographies. (NAL Call No.: DNAL KF27.I5474 1985a).

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Agricultural input use and potential water pollution associated with irrigation in Georgia.

Ziemer, R.F. Musser, W.N.; Clifton, I.D. Athens, Ga., The Stations. Research bulletin - University of Georgia, Experiment Stations. Aug 1978. Aug 1978. (222). 25 p. 10 ref. (NAL Call No.: S51.E2).

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Agronomic aspects of crop irrigation with wastewater.

Ayers, R.S. Tanji, K.K. New York : American Society of Civil Engineering, c1981. Proceedings of the specialty conference Water Forum '81 : host, San Francisco Section, ASCE, San Francisco, California, August 10-14, 1981 / sponsored by the Environmental Engineering Division ... (et al.). p. 578-586. 2 p. ref. (NAL Call No.: TD201.W334 1981).

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Air and watershed management and the aquatic ecosystem.

Bormann, F.H. Likens, G.E. New York : Springer-Verlag, c1985. An Ecosystem approach to aquatic ecology : Mirror Lake and its environments / edited by Gene E. Likens. p. 436-444. (NAL Call No.: DNAL QH105.N4E3).

4473

Alleviating plant water stress (Treatments that change the physical and chemical environment of soils).

Unger, P.W. Eck, H.V.; Musick, J.T. St. Joseph, Mich., American Society of Agricultural Engineers. Modifying the root environment to reduce crop stress. 1981. Literature review. 1981. p. 61-96. ill. Includes 91 ref. (NAL Call No.: S596.7.M63).

4474

Alternatives to the use of agricultural drainage wells.

WARBA. Kanway, R.S. Baker, J.L.; Melvin, S.W. Minneapolis, Minn. : American Water Resources Association. Water resources bulletin. Aug 1986. v. 22 (4). p. 573-579. ill., maps. Includes references. (NAL Call No.: DNAL 292.9 AM34).

(DRAINAGE AND IRRIGATION)

4475

Anti-pollution devices for applying chemicals through the irrigation system.
Fischbach, P. E. Document available from: University of Nebraska-Lincoln, Dept. of Agricultural Communications, Lincoln, Nebraska 68583 1973. This publication explains how irrigators can utilize anti-pollution devices for applying chemicals through their irrigation system. 1 sheet : ill. (NAL Call No.: Document available from source.). (NAL Call No.: G 73-43).

4476

Appearance and water quality of turbidity plumes produced by dredging in Tampa Bay, Florida /by Carl R. Goodwin and D.M. Michaelis ; prepared in cooperation with the U.S. Army Corps of Engineers, Jacksonville District. --.
Goodwin, C. R. Michaelis, D. M. Reston, Va. : Dept. of the Interior, U.S. Geological Survey ; Alexandria, VA : For sale by the Distribution Branch, Text Products Section, USGS, 1984. vi, 66 p. : ill. (some col.), maps ; 28 cm. --. Bibliography: p. 64-65. (NAL Call No.: DNAL 407 G29W no.2192).

4477

Applicable experience at land disposal sites: drainage-leaching-monitoring.
Shilesky, D.M. Walsh, J.J. Silver Spring, Md. : The Institute, (1981?). Proceedings of National Conferences on Risk & Decision Analysis for Hazardous Waste Disposal, August 24-27, 1981, Baltimore, Maryland / sponsored by Hazardous Materials Control Research Institute. p. 106-116. ill. Includes references. (NAL Call No.: TD811.5.N3 1981).

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Application of agricultural chemicals in pressurized irrigation systems (Infection system, operating costs).
Longley, T.S. Sandvol, L.E.; Gray, C.W. Moscow : The Service. Current information series - Cooperative Extension Service, University of Idaho. Jan 1983. Jan 1983. (673). 4 p. ill. (NAL Call No.: 275.29 ID13IDC).

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Application of herbicides through irrigation systems in vegetable crops.
Ogg, A.G. Jr. Sacramento, Calif. : California Weed Conference Office. Proceedings - California Weed Conference. 1984. 1984. (36th). p. 95-97. (NAL Call No.: 79.9 C122).

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Applying fungicides to ornamentals through overhead irrigation.
Smith, D.A. Boulder : The Society. Combined proceedings - International Plant Propagators' Society. 1984 (pub. 1985). v. 34. p. 421-423. Includes 1 references. (NAL Call No.: DNAL 451 P692).

4481

Assessment of long-term salinity changes in an irrigated stream-aquifer system.
WRERA0. Konikow, L.F. Person, M. Washington, D.C. : American Geophysical Union. Water resources research. Nov 1985. v. 21 (11). p. 1611-1624. maps. Includes references. (NAL Call No.: DNAL 292.8 W295).

4482

Australian detention basins: recent developments (Stormwater drainage).
Mein, R.G. New York : American Society of Civil Engineers, c1982. Proceedings of the Conference on Stormwater Detention Facilities : planning, design, operation, and maintenance / New England College, Henniker, New Hampshire, August 2-6, 1982 : edited by W. DeGroot. p. 41-48. maps. Includes references. (NAL Call No.: TD665.C65 1982).

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Automated irrigation and nutrient injection system for closed environmental growth chambers (Winter wheat).
McKinion, J.M. Hodges, H.F.; Acock, B. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-4527). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

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Backflow prevention requirements for Florida irrigation systems /A.G. Smajstrla ... et al. .
Smajstrla, Allen George. Gainesville : Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida, 1985? . Cover title. 13 p. : ill. ; 23 cm. (NAL Call No.: DNAL 275.29 F66 no.217).

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Behavior of bromacil and napropamide in soils. II. Distribution after application from a point source (Pesticides, irrigation).

Gerstl, Z.S.S.S.J.D. Yaron, B. Madison : The Society. Journal - Soil Science Society of America. May/June 1983. v. 47 (3). p. 478-483. ill. Includes references. (NAL Call No.: 56.9 S03).

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Bidirectional uniformity of water applied by continuous-move sprinkler machines.

Hanson, B.R. Wallender, W.W. St. Joseph, Mich. : The Society. American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1985 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1985. (fiche no. 85-2572). 23 p. Includes references. (NAL Call No.: DNAL FICHE S-72).

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AUDUAD. Steinhart, P. New York, N.Y. : National Audubon Society. Audubon. Mar 1985. v. 87 (2). p. 111-114. (NAL Call No.: DNAL S900.A8).

4488

Case histories on the use of wastewater for irrigation.

Mickelson, M.J. New York : American Society of Civil Engineers, c1982. Proceedings of the Specialty Conference on Environmentally Sound Water and Soil Management : Orlando, Fla., July 20-23, 1982 / E.G. Kruse, C.R. Burdick, and Y.A. Yousef, co-editors. p. 508-509. (NAL Call No.: TC803.S64 1982).

4489

A case of raw wastewater irrigation in Sicily.

Indelicato, S. Li Destri, O.; Tamburino, V. Denver, Colo. : AWWA Research Foundation ; Springfield, Va. : reproduced by NTIS, 1981. Proceedings of the Water Reuse Symposium II : held August 23-28, 1981, Washington, D.C. v.1, p. 477-489. ill., maps. Includes references. (NAL Call No.: TD429.W3 1981).

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A center pivot irrigation simulator for pesticide applications.

Pickle, F.J.TAAEA. Chesness, J.L. St. Joseph : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Sept/Oct 1982. v. 25 (5). p. 1254-1257. ill. 14 ref. (NAL Call No.: 290.9 AM32T).

4491

Chemical and morphological soil characteristics in a New England drainage-toposequence.

Veneman, P.L.M. Bodine, S.M. Madison, Wis., The Society. Soil Science Society of America journal. Mar 1982. v. 46 (2). p. 359-363. ill. Includes 15 ref. (NAL Call No.: 56.9 S03).

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Chemical application with the multifunction LEPA system.

TAAEA. Lyle, W.M. Bordovsky, J.P. St. Joseph, Mich. : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Nov/Dec 1986. v. 29 (6). p. 1699-1706. Includes references. (NAL Call No.: DNAL 290.9 AM32T).

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Chemical contamination from federal irrigation projectoversight hearing before the Subcommittee on Water and Power Resources of the Committee on Interior and Insular Affairs, House of Representatives, Ninety-ninth Congress, first session ... hearing held in Washington, DC, September 12, 1985. --.

United States.~Congress.~House.~Committee on Interior and Insular Affairs.~Subcommittee on Water and Power Resources. Washington, D.C. : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O., 1986. Distributed to some depository libraries in microfiche.~ Shipping list no.: 86-1003-P.~ "Serial no. 99-29." iv, 244 p. : ill., forms, maps ; 24 cm. Bibliography: p. 166. (NAL Call No.: DNAL KF27.I5474 1985e).

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Bisconer, I. St. Joseph, Mich. : American Society of Agricultural Engineers, c1985. Drip/trickle irrigation in action : proceedings of the Third International Drip/Trickle Irrigation Congress, November 18-21, 1985, Centre Plaza Holiday Inn, Fresno, California, USA. p. 477-484. Includes 4 references. (NAL Call No.: DNAL S612.I5 1985).

(DRAINAGE AND IRRIGATION)

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Chemigation fascination (Application of fertilizers, herbicides, insecticides, and fungicides through irrigation systems).
Willoughby, Ohio : Meister Publishing Company. American vegetable grower and greenhouse grower. Apr 1982. v. 30 (4). p. 10, 13. (NAL Call No.: 80 C733).

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AGENA. Bisconer, I. St. Joseph, Mich. : American Society of Agricultural Engineers. Agricultural engineering. May/June 1987. v. 68 (4). p. 8-11. ill. (NAL Call No.: DNAL 58.8 AG83).

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Chemigation in pecans.
Aitken, J.B. Gorsuch, C.S. St. Joseph, Mich. : American Society of Agricultural Engineers. c1985. Drip/trickle irrigation in action : proceedings of the Third International Drip/Trickle Irrigation Congress, November 18-21, 1985, Centre Plaza Holiday Inn, Fresno, California, USA. p. 495-499. Includes 4 references. (NAL Call No.: DNAL S612.I5 1985).

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Beebe, Charles N. Beltsville, Md. : U.S. Dept. of Agriculture, National Agricultural Library ; Washington, D.C. : U.S. Environmental Protection Agency, Office of Pesticide Programs, 1985. "August 1985."~ Includes index. 65 p. ; 28 cm. --. (NAL Call No.: DNAL aZ5076.A1U54 no.39).

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Reese, L.E. Loudon, T.L.; Potter, H.S. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1984. Paper presented at the 1984 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1984. (fiche no. 84-2100). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

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AGENA. Basselman, J.A. St. Joseph, Mich. : American Society of Agricultural Engineers. Agricultural engineering. Nov 1984. v. 65 (11). p. 12-13. (NAL Call No.: DNAL 58.8 AG83).

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Daughtry, B. Boulder : The Society. Combined proceedings - International Plant Propagators' Society. 1983 (pub. 1984). v. 33. p. 596-599. (NAL Call No.: DNAL 451 P692).

4505

Classification of irrigation water quality (Dissolved salts, sodium, calcium, magnesium, Oklahoma).

Johnson, G. Hanlon, E. Stillwater : The Service. OSU extension facts - Cooperative Extension Service, Oklahoma State University. Oct 1982. Oct 1982. (2401,rev.). 4 p. (NAL Call No.: S544.3.0505).

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Bausum, H.T. Schaub, S.A.; Kenyon, K.F.; Small, M.J. Washington, D.C., American Society for Microbiology. Applied and environmental microbiology. Jan 1982. v. 43 (1). p. 28-38. Includes 25 ref. (NAL Call No.: 448.3 AP5).

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FOOD STORAGE, HORTICULTURAL CROP

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4923

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(*Fusarium moniliforme*, Arizona).

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Enhanced clarification of tannery wastewater.
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303.9 AM32).

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**Joint wastewater management for a cluster of
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PIWCA. Cheda, P.V. Mandlekar, U.V.; Handa,
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wastewaters).**
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AGRICULTURAL PRODUCTS - PLANT

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Acid rain degradation of nylon (Outdoor textiles).

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Armitrage, A.M.JDSHB. Kowalski, T. Alexandria : The Society. Journal of the American Society for Horticultural Science. Jan 1983. v. 108 (1). p. 118-121. Includes references. (NAL Call No.: 81 S012).

4952

The effect of water soluble bacterial and fungal extracts of cotton origin on macrophage cyclic GMP (guanosine monophosphate) and prostaglandin F2 alpha production (*Gossypium* bract, lint, gin trash, veterinary toxicology).
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Textile dyebath reconstitution and reuse.

Bergenthal, J. Hendriks, R.; Tincher, W.; Eapen, J.; Tawa, A. Denver, Colo. : AWWA Research Foundation, c1985. Future of water reuse : proceedings of the Water Reuse Symposium III, August 26-31, 1984, San Diego, California / co-sponsored by American Society of Civil Engineers ... et al. . p. 840-857. ill. Includes 5 references. (NAL Call No.: DNAL TD429.W3 1984).

HUMAN NUTRITION

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Healthy living in an unhealthy world /Edward J. Calabrese and Michael W. Dorsey. --.
Calabrese, Edward J., 1946-. Dorsey, Michael W.
New York : Simon and Schuster, c1984. Abstract:
A non-technical text for the general public presents a distillation of literature concerning the effects of diet on environmental disease. Topics include the chemistry of nutrition; toxicological and epidemiological agents of disease; food contaminants; the widespread presence of air, water, and land pollution; occupational hazards; how drugs effect nutrition; and how lifestyle affects pollutant susceptibility. A variety of nutrients against environmental toxins is presented throughout the text. An index and bibliography are appended. (wz). Includes index. 223 p. : ill. ; 22 cm. Bibliography: p. 203-212. (NAL Call No.: DNAL RA566.C25).

DIET AND DIET RELATED DISEASES

4956

Iodine in soils, waters, and farm products of Kentucky.

KAEBA. McHargue, J.S. Lexington : The Station.
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Station. Documents available from: Agriculture
Library, Agricultural Science Center - North,
University of Kentucky, Lexington, Ky.
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Includes 20 references. (NAL Call No.: DNAL 100
K41 (2)).

HOME ECONOMICS

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